CONSTRUCTION NEWS

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RAILWAYS.

(*Denotes that this work is advertised in Engineering News.)

Vermont.—Swanton & Alburg R. R.—A charter has been granted to this company for the constructon of a ten-mile line between Swanton and Alburg.

New York.—Delaware, Lackawanna & Western R. R.—This company is considering the expenditure of $100,000 for the elimination of the Robinson St. grade crossing at Binghamton. G. J. Ray, Hoboken, N. J., is Ch. Engr.

New York, N. Y.—The Public Service Commission has made a requisition upon the State Comptrolled for the appropriation of $1,000,000 as the state's quota of expense toward the elimination of grade crossings in New York for the coming year. If this appropriation is granted it will lead to a fund of $4,000,000 for the abolition of grade crossings. The state furnishes 25% toward such expenses, and the city 25%, and the railroad companies whose crossings are altered 50%. On Long Island there are crossing sufficient to require $1,400,000. On the Montauk Division of the Long Island R. R., $200,000, on the Whitestone branch $400,000, on the Whitestone division $400,000. The principal amount of the entire appropriation will be on Long Island. In former years the Commission made requests for $600,000 from the State Comptroller, but during the past two years received only $250,000 of the amount required. The Commission strongly urges the state to appropriate $1,000,000 for this purpose, in view of the growing loss of life and serious accidents on account of grade crossings.

Pennsylvania.—Baltimore & Ohio R. R.—This company is contemplating the construction of an undergrade crossing between Folsom and Prospect Park. F. L. Stuart, Baltimore, Md., is Ch. Engr.

✚Alabama.—Gulf, Florida & Alabama R. R.—The preliminary surveys have been completed for this 300-mile line and some location surveys made. A contract for construction from Pensacola to Contonment has been awarded to CHARLES MERRITT, Pensacola. The road, which will be almost north and south, is from Pensacola to a junction with the Illinois Central R. R. and the St. Louis & San Francisco System near Jasper in the northern part of Alabama. The maximum grades will be 1% and maximum curvature 4° compensated. Interests identified with the road have purchased 63 miles of railway from the Southern States Lumber Co. Bonds to the extent of $20,000 will be issued for each mile of main line. There will be heavy work from Tuscaloosa north to Jasper and two large bridges will be required. R. C. Megargle, 5 Nassau St., New York, N. Y., is Pres., and George A. Berry, Blount Bldg., Pensacola, Fla., Ch. Engr.

Ohio.—Hocking Valley R. R.—It is reported that this company is considering the double tracking of its line from Columbus to Toledo. Dock improvements will also be made in Toledo. W. Michel, Columbus, is Ch. Engr.

Iowa.—Great Northern Ry.—It is reported that this company is contemplating the construction of a line into Sioux City. A. H. Hogeland, St. Paul, Minn., is Ch. Engr.

Colorado.—Denver, Northwestern & Pacific R. R.—This company has finished arrangements for the construction of a line from Steamboat Springs to the anthracite coal fields.

Oregon.—Oregon Southern R. R.—This company has been incorporated for the purpose of constructing a line from Ashland, Ore., to Port Oxford, touching Medford, Jacksonville, Grants Pass and Eugene. Charles Radebough, Corning, Cal., is interested.

California. — Cement, Tolenas & Tidewater R. R.—This company has been organized for the purpose of constructing a line from Cement to Tidewater. R. B. Henderson, Fairfield, is an incorporator.

British Columbia.—Canadian Northern Ry.—Bids will be received until Nov. 30 by McKenzie & Mann, 837 Hastings St., Vancouver, for constructing a section of this company's line from Mile 60 to Mile 100, on Vancouver Island.

Mexico.—Southern Pacific Co. of Mexico.—This company will soon make application for a concession to extend its line from Tepic to a connection with the Pan American R. R. and Tehuantepec National Ry., a distance of about 900 miles. The route will be down along the Pacific Coast. L. H. Long, Tucson, Ariz., is Ch. Engr.

ELECTRIC RAILWAYS.

(✚*Denotes a contract awarded.*)

Springfield, Mass.—The Springfield Street Ry. Co. contemplates double-tracking its line on Belmont Ave. E. J. Dickson, 1 Main St., Springfield, is Mgr.

Stafford Springs, Conn.—Surveys will soon be made by the Willimantic & Stafford St. Ry. Co. to locate the route for the proposed line connecting Stafford Springs, South Willington, Mansfield Center and Willimantic. William H. Hall, South Willimantic, is Pres.; C. A. Capan, Willimantic, is Secy., and L. J. Storrs, Spring Hill, is Treas. Noted May 4.

Long Branch, N. J.—The Jersey Central Traction Co., Keyport, N. J., is planning to build a line from Long Branch to Red Bank by way of Little Silver and Elkwood Park. J. B. Livingston, Keyport, N. J., is Pur. Agt.,

Pittsburghh, Pa.—The Westmoreland County Ry. Co., Pittsburgh, is considering plans to construct an extension from Latrobe to Perry and Blairsville. V. H. Wilburn, Derry, Pa., is Pur. Agt.

Pittsburgh, Pa.—The Westmoreland Street Ry. Co., operated by the Pittsburgh Rys. Co., has been granted a franchise by the City Council to lay its tracks on certain streets in the city. F. Uhlenhart, Jr., 405 Sixth Ave., Pittsburgh, is Ch. Engr.

Cumberland, Md.—R. A. Radcliff, Secy. of the Ridgley Miller Avenue St. Ry. Co., confirms the report that it will build a line about three miles long from Blue Ridge to Millers Farm. Construction will not begin until spring, and dates for opening bids for construction has not been set. The officers are: John L. Miller, Pres.; Alfred Ridgley, Vice-Pres.; Conrad Miller, Treas., and J. T. Vandergrift, Gen. Mgr.

Hattiesburg, Miss.—An expenditure of $200,000 for extension and improvements will be made by the Hattiesburg Traction Co., of which C. Z. Stevens, this city, is Gen. Mgr. and Pur. Agt.

Cleveland, Ohio.—The North Randall Ry. Co., Cleveland, is planning to build a 3-mile electric railway from Windfall Ave., Cleveland, to the Randall race track.

Indianapolis, Ind.—Charles L. Henry, Pres. Indianapolis & Cincinnati Traction Co., announces that a route has been selected for the extension of the road from Connersville, Ind., to Cincinnati, Ohio. The work will be let by contract.

West Terre Haute, Ind.—Application has been made by John W. Ratliff, of this city, for a franchise to build a line along the west side of the Wabash River between West Terre Haute and Clinton.

Lansing, Mich.—The Michigan-Indiana Traction Co. is securing a right-of-way between Coldwater, Columbia, Union City and Athens. Walter Powers, Battle Creek, is interested, it is reported.

Wyandotte, Mich.—The construction of a line from Wyandotte to Ann Harbor by way of Ypsilanti, about 40 miles, is being planned by P. N. Jacobson, of Detroit, and associates.

Averyville, Ill.—A franchise has been granted to the Peoria Northern Ry. Co. by the Board of Trustees for a line between Averyville and Peoria. H. E. Chubbuch, Peoria, is Pres. Noted Oct. 10.

Kankakee, Ill.—A franshise has been granted by the Board of Supervisors to the Kankakee Electric Ry. Co. to extend its line on East Court St. to a point beyond the city limits. B. M. Rollins, this city, is Gen. Mgr.

Minneapolis, Minn.—The Twin City Rapid Transit Co. has been granted a franchise to extend its line on Franklin Ave. W. J. Hield, Eleventh St. and Hennepin Ave., this city, is Vice-Pres. and Gen. Mgr.

Worthington, Minn.—The Sioux Falls & Southern Minnesota Traction Co., Pierre, S. Dak., has completed surveys from Worthington to Albert Lea, Minn. This line will connect Sioux City, S. Dak., and Albert Lea, Minn., by way of Worthington, Sheppard, Spring Valley, Dresde, Loon Lake, Petersburg, Dwinnell, Ceylon, Silver Lake and Pilot Grove. G. P. Peterson, Pierre, S. Dak., is interested.

Beaumont, Tex.—See item under Light, Heat and Power.

Houston, Tex.—The Houston Electric Ry. Co. contemplates making an expenditure of about $750,000 for the improvements of its lines in Houston in the near future.

Tioga, Tex.—The Tioga Traction Co. has been organied here for the purpose of constructing an interurban electric railway between Tioga and Gainesville by way of McKinney, a distance of about 50 miles. J. P. Mason and M. Bradley, of Tioga are interested.

Boulder, Colo.—A franchise has been granted to the Boulder Electric Light & Power Co. by the City Council to extend its line in Boulder into the northern section. C. H. Williami, Denver, is Gen. Mgr.

Phoenix, Ariz.—A franchise has been granted to the Salt Lake River Electric Co. for the construction of an electric railway system within the corporate limits.

White Salmon, Wash.—Bertleson & Sons, Tacoma, have submitted a bid of $42,000 to the Mount Adams Electric Ry. Co. for the construction of its proposed railway from a point near the Columbia River to White Salmon.

Portland, Ore.—Application, it is stated, has been made by the Portland Ry., Light & Power Co. for a franchise to double-track the Sandy Boulevard line. B. S. Josselyn, Seventh and Alder Sts., this city, is Pres.

Bakerfield, Cal.—Press reports state that the lines owned by the San Joaquin Light & Power Co. in Bakerfield will be double-tracked.

Los Angeles, Cal.—It is recommended that the Board of Public Utilities be empowered to negotiate with the Pacific Electric Ry. Co. for the building of street car tracks on San Pedro St., from Sixth to Aliso Sts. This is to relieve Main St. of the present congested condition. The committee recommends that an indeterminate franchise be granted to the Pacific Electric Ry. Co. to build the line.

Oakland, Cal.—Plans for an extension of the Oakland Avt. line to the waterfront have been completed by the Oakland Traction Co. W. F. Kelly, 710 San Pablo Ave., Oakland, is Gen. Mgr. Noted Oct. 26.

✚Sacramento, Cal.—A contract has been awarded to HARD BROS., Woodland, for a 5-mile section of the Woodland-Sacramento line being built by the Vallejo & Northern Ry. Contracts awarded for other sections were noted on Oct. 26. Bids are being received for a 10,000-ft. trestle.

Franchises have been granted to the Sacramento Electric, Gas & Ry. Co. by the city to extend its lines into four new sections. George Holborton, San Francisco is Ch. Engr.

San Bernardino, Cal.—It is believed that work will be started in the near future by the Pacific Electric Ry. Co. on its proposed extension from F St. and Seventh St. to Mt. Vernon. J. McMillan, Sixth and Main St., Los Angeles, is Gen. Mgr.

Stockton, Cal.—The Stockton Electric Ry. Co. is considering a plan to build an extension between Stockton and Fair Oakes. F. W. Webster, 606 North California St., Stockton, is Gen. Mgr. and Pur. Agt.

Berlin, Ont.—A plan to build a belt line to circle the city making connections at King St. with the present main line between Berlin and Waterloo and the present radial, is being considered by the Berlin & Bridgeport Electric St. Ry. Co. W. J. Breithaupt, Berlin, is Pres.

Carbon, Alta.—The Alberta Electric Ry. Co. is making a survey of the section between Carbon and the Red River.

LIGHT AND POWER PLANTS.

(**Denotes that this work is advertised in Engineering News.*)

Veazie, Me.—The Bangor Ry. & Electric Co., it is stated, will replace the present wooden dam with one of reinroced concrete and stone. John R. Graham, 31 Main St., Bangor, is Pres. and Gen Mgr.

✚Holden, Mass.—A contract for erection of a transmission line, apparatus for a substation and other material for the construction of a distributing system has been awarded to the WESTERN ELECTRIC CO., 463 West St., New York City, at about $9,700.

Maiden, Mass.—The Boston Elevated R. R. Co. is about to build a transformer station at 68 Middlesex St. in connection with the Maiden terminal. It will be of brick, concrete and steel, 31 ft. high, and cost $36,000. George A. Kimball is Ch. Engr.

✚Derby, Conn.—A contract has been awarded to M. A. DURRSCHMIDT for three new buildings at the plant of the Derby Gas Co. The plans were drawn by L. W. Robinson, 856 Chapel St., New Haven, Conn. There will be a condenser house 48 × 86 ft., 30 ft. high; a retort house 40 × 60 ft., and a circular coal bin 70 ft. in diameter. To be of brick with steel truss roofs.

New Haven, Conn.—A permit has been granted to the Connecticut Co. to erect a $25,000 addition to its power plant on Grand Ave.

Stamford, Conn.—We are advised that tne new plant the Stamford Gas & Electric Co. is building in Stamford in the section known as Waterside and not Riverside, as stated in the issue of Nov. 2.

Cortland, N. Y.—Bids were received by Dr. Andrew S. Drapper, Comr. of Education, State Normal College, Albany, N. Y., for fixtures and wiring for the State Normal School at Cortland as follows: The Conduit Electric Co., Syracuse, $6,984; Frost & Sheldon, Albany, $7,200; E. Joy Co., Syracuse, $[illegible],256; J. F. Jackson, New York, N. Y., $7,665; Wheeler & Green Co., Rochester, $7,883, and Buffalo Electric Contracting Co., Buffalo, $7,785.

Saratoga Springs, N. Y.—Bids will be received until Nov. 30 for lighting streets with gas or electricity for a period of 4 years. Clarence Bird is Village Clk.

✚New York, N. Y.—A contract has been awarded by Joseph Johnson, Fire Comr., Fire Department, 157 and 159 East 67th St., to WILLIAM J. OLVANY, 117 Christopher St., New York, at $11,076, for repairs to the heating systems in various company quarters, for which bids opened Nov. 6. The other bidders

BUSINESS NEWS OF THE WEEK.

The railroads have purchased cars more freely than in a long time, and it is estimated that the freight cars ordered during the last week numbered 8,500. The New York Central Lines ordered about 4,000. This company has purchased 13,000 cars and 100 locomotives in the last month. The Grand Trunk closed a contract for 2,000 freight cars. The American Car & Foundry Co. has put 1,500 additional men to work at its Madison, Ill., plant.

The production of pig iron during October amounted to 2,100,000 tons, the largest in any month since April, the daily rate of producition being 68,000 tons. In spite of the larger demand and decrease of stocks at furnaces, prices have declined. There is no disposition on the part of consumers to buy for future delivery. The report of the Copper Producers' Association showed a decrease of 6,000,000 lbs. in stocks during the month. The total stock on hand now amounts to 135,000,000 lbs., while domestic consumption and exports are now about 120,000,000 lbs. a month.

Railroads have purchased rails more freely, and it is estimated that the total contracts for rails placed since January 1 have exceeded 2,000,000 tons and are 900,000 tons greater than during the corresponding period last year.

The Government activities toward industrial combinations have not created the havoc prophesied by so many business men, and men of affairs are taking a more sane view of the Trust situation.

Railway traffic continues large, and two voluntary wage advances have been made to railway employees; one an advance to all clerks receiving less than $70 a month.

Garbage handlers of New York refuse to work according to the rules of the Department, and their places have been filled by other laborers. This so-called strike was accompanied with considerable violence.

The idle cars on American railways numbered 20,532 on Oct. 25. This is the smallest number reported since November, 1910.

were S. A. Kessler, 251 East 66th St., New York, $12,987; Christopher Nally, 2371 Broadway, New York, $11,700.

Newark, N. J.—Bids will be received by the Board of Education until Nov. 18 for power transmission machinery for various schools. Separate bids will be received for grading and building a retaining wall at the Waverly Ave. School. R. D. Argee is Secy.

New Castle, Pa.—An electric power plant will be erected on Slipperyrock Creek, eleven miles east of New Castle, by the Connoquenessing Power Co. F. G. Ross, Arthur Barnes and J. H. Roelofs, all of Pittsburgh, Pa., are the incorporators.

Arlington, Va.—Bids were received as follows on Nov. 11 by the Board of Yards and Docks, Navy Department, Washington, D. C., for a hot-water heating system at Arlington, Va.: General Fire Extinguisher Co., 1000 Chestnut St., Philadelphia, Pa., (1) $6,482, (2) $416, (3) $6,066; E. J. Febrey Co., 622 F St., Washington, D. C., (1) $4,495, (2) $518, (3) $3,977; W. G. Cornell Co., Washington, D. C., (1) $4,206, (2) $406, (3) $3,800; Hoben & Doyle, 21st & Pine St., Philadelphia, Pa., (1) $4,100, (2) $600, (3) $3,500; John F. Dalton, 1745 Amsterdam Ave., New York, N. Y., (1) $4,242, (2) $600, (3) $3,842; Newport Contracting & Engineering Co., Newport News, Va., (1) $4,132, (2) $800, (3) $3,697; Lynwood B. Jacobs, Newark, Del., (1) $4,075, (2) $450, (3) $3,775.; John W. Danforth Co., 72 Ellicott St., Buffalo, N. Y., (1) $4,200, (2) $400, (3) $3,800.

Roanoke, Va.—The Appalachian Power Co. will build a substation and develop water power on the New River. Veile, Blackwell & Buck, 49 Wall St., New York, are the Engrs. Samuel Kahn is in charge of the branch office at Bluefield, W. Va.

+Belleville, W. Va.—A contract for the erection of a power house at government dam No. 19, located near Belleville, has been let to the M. L. BAIRD CONSTRUCTION CO., Philadelphia, Pa.

Enfield, N. C.—Bids will be received by W. T. Clement, Mayor, and the Commissioners, until 8 p. m., Dec. 6, for construction of electric-light plant. C. E. Fairbanks, 417 American National Bank Bldg., Richmond, Va., is the Engr.

Selma, N. C.—Bids were received November 14, for 60-HP. boiler; 60-HP. engine; 50 to 60-KW. 3-phase generator and switchboard; electric wires and equipment; 60,000-gal. steel tank and 70-ft. tower; about 12 hydrants; 2,000 ft. of fire hose; 5,000 ft. 6-in. water pipe; 1,000 ft. 36-in. terra-cotta drainage pipe. Further information may be obtained from M. C. Winston and J. N. Mitchiner.

Atlanta, Ga.—The Georgia Ry. & Power Co. has been organized with a capital of $27,000,000 and is absorbing all the most important hydroelectric projects in Georgia, and by a lease arrangement will operate in connection with its other activities the electric street railway, electric lighting, heating and power companies now consolidated in the Georgia Ry. & Electric Co. of Atlanta. Under the lease arrangemen the new company guarantees all the obligations of the Georgia Ry. & Electric Co., public and private, and agrees to pay 8% dividends on outstanding stock.

Among the water-power development plants that are consolidated under the new Georgia Ry. & Power Co. are: (1) the power plants at Bull Sluice, the source of electric supply for Atlanta; (2) the Etowah power plant; (3) the Tallulah power development, which is now in course of construction, with plans for 100,000 HP. The incorporators include J. M. McWhinney, of Toronto, Canada; Charles Magee, R. Matheson and George A. Kingston, of Toronto, who are backing the plan financially, and Forrest Adair, J. J. Spalding, A. C. King and F. Marvin Underwood, of Atlanta.

The projectors of the new company plan to go forward with development work already outlined on a large scale. Among its plans for the immediate future is the construction of 16 miles of electric road to Stone Mountain to connect with the line of the Georgia Ry. & Electric Co. at Decatur, and thus establishing communication with Marietta, East Point, College Park and other suburbs.

The company will not be affiliated with any of the large electrical interests, neither the Westinghouse Co., the General Electric Co., nor any other. It is an entirely new company, to develop electric power, operate street railways and furnish light and power to municipalities and private corporations. It will have as competitors the Southern Power Co., which is operating in South Carolina, close to the Georgia line, and the Alabama Interstate Power Co. In Georgia the competitors are the Central of Georgia Power Co., which has a large development near Jackson, Ga., and the Columbus Power Co. There will be 300 miles of steel transmission power lines on steel towers, the voltage to be 100,000.

In addition to the three water powers already developed, or in course of completion, the company owns several other smaller projects which will be developed as the necessity arises. Among these are water-power sites in the Chattahoochee River, between the North Georgia Electric Co. development at Gainesville and Columbus, Ga., including the Franklin shoals property in Heard County and sites in the Chestatee and Etowah Rivers. Preliminary surveys have been in progress for a year past, and plans are being made for immediate development in these places.

+At the head of the Georgia Power Co., which is developing the power at Tallulah Falls, is C. Elmer Smith, of York, Pa., who is also president of the S. Morgan-Smith Co. The contract for this work has been let to the NORTHERN CONTRACTING CO., of Detroit, Mich., which has sublet the construction of the dam to B. H. HARDAWAY, of Columbus, Ga. This dam will be 115 ft. high, with an approximate cost of $200,000. At the present time coffer dams have been built and permanent masonry started over half the length of the dam. Water is carried from the dam to the power house through a 6,600 ft. rock tunnel. The work is being done by Condon, Graham & Milner, of Knoxville, Tenn. The headings have been drilled at the present time for a total distance of 1,600 ft. The first installation will be three units each, 8,000-KW. alternators, driven by 15,000-HP. water wheels under a head of 600 ft. The ultimate development will be six units. The engineer in charge of this work is C. O. Lentz, 71 Broadway, New York.

+The Georgia Power Co., which has a capital stock of $10,000,000, has previously acquired the North Georgia Electric Co. development at Gainesville, which is furnishing 3,000 HP.; the Etowah Power Co., of Canton, Ga., capable of furnishing 30,000 HP., and the site at Franklin shoals in the Chattahoochee River. The company has let the contracts for steel towers to the AMERICAN BRIDGE CO., 30 Church St., New York. The wire is being supplied by the AMERICAN STEEL & WIRE CO., of Pittsburgh.

The officers of the Georgia Ry. & Power Co. are: H. M. Atkinson, Chn. Bd. of Directors; Preston S. Arkwright, Pres.; G. W. Brine, Vice-Pres., Treas. & Gen. Mgr.; W. H. Glenn, Secy. & Mgr. Rys.; F. E. Block, Thomas Eggleston, Thomas K. Glenn, J. C. Hallman, John L. Hopkins, Frank Hawkins, John E. Murphy, Joseph T. Orme, all of Atlanta; Charles F. Ayer and Percival Lowell, of Boston, and Randall Morgan, of Philadelphia, are also of the directorate.

Baxley, Ga.—See item under Water Supply—Irrigation.

+Marshallville, Ga.—A contract has been awarded for furnishing light and water to the city, to J. C. WALKER, Pres. of the Georgia Banking Co., Marshallville, who is heading a company recently formed for the purpose. An electric plant and water-works will be installed.

Royston, Ga.—James J. Roberts is planning to install an electric-light and power plant.

Piedmont, Ala.—See item under Water Supply—Irrigation.

Talledega, Ala.—Preliminary work is progressing in connection with power development projected by the Alabama Power Co. at Jackson Shoals on the Little River below Talledega. A dam will be built. R. A. Mitchell, Gadsden, Ala., is Pres.

+Paris, Tenn.—M. W. Younkin, Supt. of the municipal lighting plant, has awarded a contract to the KEYSTONE DRILLER CO., Beaver Falls, Pa., for a double stroke deep-well pump driven by 20-HP. motor, direct connected 230 volts. Work will be started at once.

Niles, Ohio.—A municipal street-lighting system is contemplated.

+Cambridge City., Ind.—A contract has been awarded by the Council to ROY KNIESE, Cambridge City, at $4,087 for the construction of the new municipal electric-light plant.

Pulaski, Ind.—The dam on the Tippecanoe River at Pulaski will be repaired and raised by the Central Indiana Water, Light, Heat & Power Co., recently incorporated. Materials have been ordered. A power station will be built a short distance up the river. The incorporators are Edgar A. Rossiter, Edward Smalley, Charles Lohrer, Andrew J. Cooper and Hazel Keenon, of Chicago and Aurora, Ill. Frank L. Kleckner is Engr.

Ann Arbor, Mich.—Bids were received Nov. 15 by Shirley W. Smith, Secy. University of Michigan, at the office of Smith, Hinchman & Grylis, Engrs., 710 Washington Arcade, Detroit, for a power house, pipe tunnels and water supply conduits. The estimated cost is $280,000.

+Baraga, Mich.—Bids opened on Oct. 16 by James McMahan, Village Clk., for constructing an electric-light plant and changes and improvements to present water-works. The contract was awarded on the combination bids of the CENTRAL COMBINATION CO., Oshkosh, Wis.; the NATIONAL METER CO., Chicago, Ill., and the ELECTRIC EQUIPMENT CO., St. Paul, Minn., at a total of $28,676. Oscar Claussen Engineering Co., Engrs., St. Paul, Minn., prepared the plans.

+Detroit, Mich.—The contracts have been awarded by R. E. Reseman, 1302 Penobscot Bldg., for the new power-house, 48 ft. high, 120 × 125 ft., for the Cadillac Motor Car Co., of which W. C. Leland is Gen. Mgr., 1343 Cass Ave. Masonry let to A. A. ALBRECHT CO., 820 Penobscot Bldg.; composition roofing let to J. D. CANDLER & CO., 177 High St. East. The total cost will be $45,000.

Barry, Ill.—The Electric Light & Power Co. contemplates rebuilding its transmission line from Barry to Kinderhook. An extension to Hull will be built, it is stated.

Beardstown, Ill.—A plan to install a municipal electric-light plant has been recommended by the City Council.

Newman, Ill.—A new plant is projected by the Newman Electric Light Co.

Chicago, Ill.—The West Hammond Gas & Electric Co. has been incorporated for the purpose of supplying light, heat and power in Chicago. Harry W. Darling, Jefferson L. Fulton and George F. Borman are the incorporators.

Sears, Ill.—The People's Power Co. has been granted permission to erect a transmission line to its dam at Sears. E. Cameron, Rock Island, Ill., is Ch. Engr.

+Antigo, Wis.—A contract has been awarded to the NORBERG MFG. CO., Milwaukee, Wis., by the Antigo Electric Co. to install a 500-HP. engine in its power plant.

Hatfield, Wis.—Permission has been granted to the La Crosse Waterpower Co., La Crosse, by Judge Sanborn at Madison, to repair the damaged portion of the dam at Hatfield. This work will cost about $150,000.

+Madison, Wis.—The Capitol Commission has awarded a contract to install heating fixtures and equipment in the south wing of the new capitol building and the southeast and southwest pavillions to the MILLER CO., Milwaukee, at $38,472.

+Oshkosh, Wis.—The State Board of Control has awarded a contract to LANGSTADT & MEYER CONSTRUCTION CO., Appleton, for rewiring the Northern State Hospital. CHARLES POLACHECK & BROS., Milwaukee, was awarded a contract for fixtures. The total amount of contracts is about $10,000.

Pawaukee, Wis.—A franchise has been granted to the Milwaukee Electric Light & Ry. Co., Milwaukee, to build transmission lines and electric railways in Pawaukee. The electric-light plant and lighting contract at Pawaukee have been taken over by this company, it is stated.

+Stevens Point, Wis.—A contract has been awarded by the Jackson Milling Co. to PETER DIETRICH, Grand Rapids, Wis., for the reconstruction of the damaged stone dam on the Wisconsin River.

+Superior, Wis.—A contract has been let by the Great Northern Power Co., Superior-Duluth, to EMIL SEDLACHEK, Superior, for the construction of a power station, to be 60 × 40 ft. and 50 ft. high.

Schullsburg, Wis.—At a special election the village has awarded the INTERSTATE POWER CO. the contract to light Shullsburg with electricity.

+Winnebago, Wis.—Bids were received Nov. 1, for (A) interior conduit and wiring, (B) illuminating units and fixtures in the Northern Hospital for the Insane as follows: Central Construction Co., (A) $9,330; Electrical Construction & Machine Co., (A) $8,850, (B) $2,660; City Electric Co., (A) $10,194; Keelyn Electric Co., (A) $8,254; George F. Rohn, (A) $7,796; H. Andrae Electric Co., (A) $7,565, (B) $2,300; The Koschin Co., (A) $5,983; R. J. Nickles, (A) $10,500, (B) $3,500; LANGSTADT & MEYER CONSTRUCTION CO., (A) $6,500 (awarded contract); H. E. Franke, (B) $4,520; CHARLES POLACHECK & BROS., (B) $2,260 (awarded contract); Wisconsin Electric Construction Co., (B) $2,491. Vaughn & Meyer, Majestic Bldg., Milwaukee, Wis., are the Consult. Engrs.

Burlington, Iowa.—The Chicago, Burlington & Quincy R. R. Co. is considering the construction of an electric power plant at Burlington. The depot, freight house and yards will be rewired, it is stated. An expenditure of $40,000 will be made.

Dunlap, Iowa.—A franchise has been voted to L. R. Betts, of Council Bluffs, to construct and operate an electric-lighting plant here.

Jewell, Iowa.—An ornamental street-lighting system is contemplated.

Prairie City, Iowa.—The Colfax Electric Light & Power Co., Colfax, has been granted a franchise to erect and operate an electric light and power plant in Prairie City for a period of 25 years. A transmission line between Prairie City and Colfax will be built.

Fergus Falls, Minn.—The Otter Tail Power Co. is considering a plan to increase its capacity by constructing a dam at a point three miles outside the city and cutting a channel directly toward city. This work will cost about $250,000.

New Ulm, Minn.—Earl Jackson, 300 Capital Bank Bldg., St. Paul, Minn., is preparing plans for an electric light plant. E. Wicherski is Recorder. The cost is estimated at $15,000.

+Thief River Falls, Minn.—The City Council has awarded a contract for equipping the new plant with two Diesel 225-HP. engines and two direct 150-KW. generators to the NORTHWESTERN ELECTRIC EQUIPMENT CO., St. Paul. The approximate cost of the plant is $50,000.

Lawrence, Kan.—Bids were received at the office of the County Clerk, Lawrence, Douglas County, Nov. 13, for furnishing one gasoline-engine-driven electric generating set, gasoline system, storage set, storage battery, electric pumps, pressure tanks and necessary piping for water system, to be installed at the County Home.

White, S. Dak.—A franchise has been granted to E. A. Harseim to install an electric light plant.

Woonsocket, S. Dak.—Application for a franchise to install and operate an electric light plant has been made by the Shuler Electric Co.

Devils Lake, N. Dak.—A special election has been held and a bond issue of $33,000 was voted to be used for the construction of a municipal electric light plant. August Raff is City Engr.

Columbus, Mont.—A permit has been granted to J. P. Pous[illegible]en by the Secy. of Agriculture to construct dams along upper Stillwater River and Woodbine Creek, it is reported. About 11,000-HP. will be generated.

Earl, Ark.—See item under Water Supply—Irrigation.

Austin, Tex.—Plans have been drawn and approved for the construction of a 15-ft. dam across the Colorado River near here and the installation of a small hydroelectric plant to irrigate several thousand acres of land and furnish power. Those interested are D. B. Matthews, Charles Jones and Goodwin Jones. J. C. Dumont is the Engr.

Beaumont, Tex.—The Stone & Webster Engineering Corporation, of Boston, Mass., has closed its option on the property of the Beaumont Ice, Light & Refrigerating Co. This involves the electric light and power plant, and it is stated that this deal is a step toward the construction of an interurban electric railway between Beaumont and Port Arthur, 25 miles. Improvements will be made to the plant.

Marfa, Tex.—The Marfa Mfg. Co. will install a gas plant and distributing system.

+Boise, Idaho.—See "Proposals."

Reno, Nev.—A new power company has completed its surveys for power sites and ditches from the Truckee River east of Reno. The company has two power sites and intends to install a plant that will generate about 9,000 HP.

+Bellingham, Wash.—Contracts for all electrical and plumbing work in the new Federal Building now under construction has been awarded to CHRISTOPHER & BLYTHE, at $40,000.

Castle Rock, Wash.—A 5-year franchise has been granted by the City Council to H. B. Davis, J. W. Seldon and the Tacoma Investment Co. to build and operate an electric-light plant. A contract to light the city streets for a period of five years was awarded to the company named.

Dayton, Wash.—Improvements and extensions are contemplated by the Pacific Power & Light Co., having recently purchased the property of the Dayton Electric Light Co.

+Tacoma, Wash.—The Tacoma Gas Co. has awarded a contract to the STACEY MFG. CO., Cincinnati, Ohio, for the construction of a gas-tank, with a capacity of 1,000,000 cu. ft.

Bandon, Ore.—An electric plant is contemplated by the Smith-Powers Logging Co. The cost of the plant and the extension of its high-tension lines to its various logging camps to supply electricity for logging operations is estimated from $400,000 to $500,000.

Riddle, Ore.—The erection of an electric-light plant is under the consideration of the Riddle Development League to supply electricity in Umpqua Valley.

Bishop, Cal.—A transmission line between Bishop and San Bernardino, 250 miles, is projected, and it is believed the work will be taken up in the near future. A hydro-electric plant and a steam relay station will be built. Delos A. Chappell is Pres.

El Centro, Cal.—Contracts will be let in the near future for the construction of a dam in the Alamo River. A claim has been filed on 50,000 ins. of water. Frank M. Salisbury, of Imperial, is Secretary of a company contemplating this work, which will cost about $75,000.

Los Angeles, Cal.—Bids will be received by the Board of Public Works until 2 p. m., Nov. 24, for furnishing hydraulic machinery and equipment consisting of water wheels and appurtenances for main generator units, water wheels and appurtenances for exciter units, central oil pressure system for governors, tools and appliances, spare parts and supplies and safety relief and by-pass valves for proposed power plant designated as San Francisquito No. 1 Power Plant. Specifications No. P-4 are on file at office of the Board. Horace B. Ferris is Secy.

Modesto, Cal.—The Western States Gas & Electric Co. will build a power line from Stockton to Modesto and will supply power to other towns in Stanislaus County.

Newport Beach, Cal.—A municipal gas and electric-light plant is under consideration. A vote will soon be taken to ascertain the advisability of issuing bonds of $60,000.

Porterville, Cal.—The Directors of the Mt. Whitney Power Co. have authorized the reconstruction of approximately 100 miles of transmission line in this vicinity.

+San Francisco, Cal.—The Board of Public Works has awarded a contract to ADAMS & HOLLOPETER, 745 Mission St., for furnishing lighting fixtures for the Hall of Justice, at $14,395.

Berlin, Ont.—A new street-lighting system is under the consideration of the City Council. The present plan is to install 1,500 lamps of 100 cp.

Renfrew, Ont.—Bids will be received by Adam Beck, Chn. Hydroelectric Power Commission of Ontario, Continental Life Bldg., Toronto, until Nov. 17, for constructing a storage dam at the outlet of Round Lake. J. B. Stuart is Town Engr.

BRIDGES.

(*+Denotes a contract awarded.*)

Orono, Me.—A steel bridge to cost $30,000 will be erected jointly by the Town of Orono and the Bangor Ry. & Electric Co. The structure will replace the covered wooden bridge across the Stillwater Branch at Orono.

Boston, Mass.—Bids for repairing the draw foundation of Dorchester Ave. bridge will be received by the Public Works Department until Nov. 20. Louis K. Rourke is Comr.

+Boston, Mass.—The contract for flooring Allston Bridge has been awarded to GEO. T. RENDLE. Louis K. Rourke is Comr. Pub. Wks.

Lynn, Mass.—The Commissioners of Essex County will soon ask bids for a steel bridge to replace the wooden structure at Fox Hill. A temporary bridge to cost $10,000 will be erected during the construction of the permanent structure. Estimated cost, $150,000.

+Norwalk, Conn.—The contract for constructing a bridge across the Norwalk River has been awarded to TIMOTHY T. FOLEY, South Norwalk, Conn., at $5,062. Noted Sept. 28.

Glenshaw, Pa.—Bids will be received by Park E. Ilch, Township Clk., Glenshaw, R. F. D. No. 2, until Nov. 16 for the masonry and superstructures of four bridges in Shaler Township. A. G. Shaw, Magee Bldg., Pittsburgh, is Engr.

***New Orleans, La.**—Bids will be received by C. R. Kennedy, City Comptroller, until 11 a. m., Dec. 28, for the erection of a Strauss trunnion bascule bridge over the Carondelet Walk Canal on Hagan Ave., in accordance with plans and specifications on file in the office of the City Engineer.

Chattanooga, Tenn.—Wilbur J. Watson, Engr. in Charge, has submitted plans for the viaduct to be constructed over the railway tracks in Chattanooga.

Cincinnati, Ohio.—Bids will be received by the Director of Public Service until noon, Nov. 17, for repairing the bridges over the Miami and Erie Canal at Sycamore, Vine, Race and Twelfth Sts., by reinforcing the trusses with additional channels and plates, and miscellaneous repairs. Plans, specifications and blank proposals can be obtained at the office of the Chief Engineer of the Dept. John J. Wenner is Clk.

Cleveland, Ohio.—Bids will be received by the Board of Commissioners of Cuyahoga County until 11 a. m., Dec. 2, for the construction of bridge grading and culverts, Falls Road, Chagrin Falls Township, in accordance with the form of contract and specifications to be furnished by Frank R. Lander, County Surveyor. John F. Goldenbogen is Clk of Bd.

Toledo, Ohio.—The Director of Public Service has been directed to advertise for bids for the construction of a bascule lift for the Cherry St. bridge. Estimated cost, $142,000.

St. Paul, Minn.—Oscar Claussen, City Engr., has sent to the Common Council the plans submitted by the Great Northern Ry. for the bridge over its right of way at Lexington Ave., and has recommended their adoption. The plans call for a wooden structure with a 28-ft. roadway. The present bridge has an 18-ft. roadway. The proposed bridge will cost about $8,000.

Wichita, Kan.—Press reports state that bids will be received by the Commissioners of Sedgwick County until Dec. 11 for constructing three bridges, as follows: One over Ninnescah River, south of Cheney in Morton Township, estimated cost $6,500; a 40-ft. steel and concrete structure in Kechi Township, estimated cost $1,800; completing bridge over the Big Arkansas River north of Mt. Hope, estimated cost, $5,500. Jesse Leland is County Clk.

Cedar Rapids, Neb.—We are officially advised that bids for the state aid bridge at Cedar Rapids were not opened Nov. 10 because it was determined that the advertisement was illegal, not having run for the required time. The bridge will be readvertised on same plans. Noted Oct. 26.

+Sheffield, Mo.—Press reports state that the Kansas City Terminal Ry. Co. has awarded a contract for constructing piers and foundations for a bridge over Blue River in Sheffield, to MISSOURI VALLEY BRIDGE CO., Leavenworth, Kan., at approximately $30,000.

Lake City, Ark.—Bids will soon be asked for constructing a steel bridge over St. Francis River. Estimated cost, $50,000.

La Junta, Colo.—The County Commissioners are considering plans for a concrete bridge over Arkansas River between North La Junta and La Junta. The structure will be 500 ft. long with a 24-ft. roadway and is estimated to cost about $50,000.

+Theodore, Utah.—The Department of the Interior has awarded the contract for constructing a bridge across Duchesne River, near Theodore, to the OMAHA STRUCTURAL STEEL CO., Omaha, Neb., at $5,975. Noted Sept. 21.

Portland, Ore.—Plans have been prepared by the City Engineer for a concrete bridge to be erected over Sullivan's Gulch at East 21st St. The structure will be 60 ft. wide and is estimated to cost $70,000. Construction work will probably not begin until spring.

Santa Barbara, Cal.—The City Council has voted a special tax levy of $20,000 for building and repairing bridges over Mission Creek.

BUILDINGS.

(**Denotes that this work is advertised in Engineering News.*)

+Bangor, Me.—The general contract for the construction of the building for St. Johns Episcopal Church has been awarded to J. L. RUSSELL, Pittsfield. Upjohn & Conable, 286 Fifth Ave., New York, are the Archs.

Manchester, N. H.—Plans are being prepared by Hutchins & French, Archs., 6 Beacon St., Boston, for the erection of a 7-story bank building here for the Amoskeag Nationol Bank.

+Boston, Mass.—The contract for the reconstruction of the main office building of the Dept. of Penal Institutions, at Deer Island, has been awarded to C. H. BROWN. Fred S. Gore is Penal Comr.

Boston, Mass.—A municipal building is proposed in the vicinity of Broadway and Washington St. Manus J. Fish is Supt. of Public Bldgs.

Construction work will soon be started on the proposed Union Station.

The Merchants' National Bank contemplates erecting a twelve-story office building at State and Exchange Sts. Arthur P. Silsbee is Pres.

Brookline, Mass.—A large fireproof building is to be erected in Village Square by the Chase Express Co. Harry E. Chase is Pres.

Cambridge, Mass.—A bakery of fireproof construction will be erected by the Ward-Corby Co. on Albany St., at a cost of $300,000.

+Holyoke, Mass.—The contract for the mason work for the block on Elm St. for J. B. Boudreau, has been awarded to JOHN J. PREW. To be 66x50 ft., 5 stories, of brick with limestone trimmings. Ellsworth & Howes are the Archs.

Plans are being drawn by Wm. B. Reid for a brick block at the corner of Hampshire and Chestnut Sts. for H. P. and Wm. Ducharme. To be 107 × 65 ft., 5 stories and contain 21 apartments.

+Great Barrington, Mass.—The contract for the rectory for Notre Dame Church has been awarded to the BARRINGTON BUILDING CO. The mason work was awarded to E. H. SHAW.

+The contract for the Haverhill St. and Garden St. M. E. Church (consolidated), to be built on Haverhill St., has been awarded to A. W. LANG & CO., 324 Bay State Bldg. To be of stone and brick, 126 × 60 ft. and cost $75,000. Cram, Goodhue & Ferguson, 15 Beacon St., Boston, are the Archs.

+Lawrence, Mass.—The contract for the store and office building to be built on Essex St. for the Oswald estate has been awarded to E. A. PEABODY & SON, CO., It will be of brick, stone and terra cotta, five stories, and cost $40,000. H. W. Rowe, 161 Devonshire St., Boston, is the Arch.

Lynn, Mass.—A $75,000 stable is to be erected for the city on Gas House Road. It will be of reinforced concrete, 141 × 108 ft., 3 stories high.

+The general contract has been awarded to the C. S. CUNNINGHAM & SONS CO. at $63,576 for the construction of the Lynn school at Beyea Pl., Lewis and Autumn Sts.

Medford, Mass.—The Opera House, destroyed by fire recently, will be rebuilt at once at an estimated cost of $40,000.

Northampton, Mass.—A store and office building, to cost $40,000, is to be built on Pleasant St. for John T. Dewey. To be of brick and stone, 3 stories, 83 × 46 ft. B. H. Seabury, Besse Pl., Springfield, is the Arch.

+The contract for the college building for the Clarke School for the Deaf and Dumb has been awarded to C. W. WHITING, 93 South St. Lincoln & Fochheimer, 5th and Raco Sts., Cincinnati, Ohio., are the Archs.

Pittsfield, Mass.—The Building Committee of the Board of Education, appointed to consider additional school accommodations, have recommended that a building be erected in the eastern section of the city, to be used as a grammar school at present, but eventually as an additional high school; also an addition of four rooms to the Briggs School, four rooms on the third floor of the high school and another school building in the south portion of the city. It is estimated that the buildings will cost $200,000.

+Springfield, Mass.—Contracts for the erection of a business block for A. P. Hare, at Main and Bond Sts., have been awarded A. L. DEAN for the mason work and JAMES H. RANKIN for the cut stone. W. B. Reid, Holyoke, Mass., is the Arch.

+Springfield, Mass.—The contract for the J. S. Bailey block, at Main and Vernon Sts., has been awarded to D. W. MELLEN. To be 145 × 48 ft., 3 stories. Dykeman & Murray, 27 School St., Boston, are the Archs.

Wakefield, Mass.—Bids will soon be called for the State Armory. To be 148 × 77 ft., of brick, and will probably cost $60,000. Geo. H. Cox, of Cambridge, is Secy. of the Armory Comn.

Westfield, Mass.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until Dec. 20, for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring, and lighting fixtures), of the U. S. post office at Westfield, Mass. The building is one story and basement and has a ground area of approximately 4,350 sq. ft.; fireproof construction except roof; stone and granite facings. Drawings and specifications may be obtained from the Custodian of Site at Westfield, Mass., or at the office of the Superv. Arch.

Worcester, Mass.—A hotel is to be built on Main and State Sts. by a syndicate. It will be 144 × 54 ft., 6 stories. Thos. D. Galasini, State Mutual Bldg., is head of the syndicate, and O. C. S. Ziroli, Slater Bldg., is the Arch.

+The contract for the store and apartment building on Union Ave. and Vernon St., for Ulrich Clifford, has been awarded to L. O. IRISH, Auburn. It will be 3 stories high, 73 × 28 ft. Peter J. Doherty, Day Bldg., is the Arch.

Providence, R. I.—An addition is proposed to the Vineyard St. school. To be 3 stories high and contain 12 rooms. The cost will be $120,000.

+Hartford, Conn.—The general contract for the Odd Fellows' building has been awarded to A. L. HILLS, Hartford, Conn. Sub-contracts have been awarded as follows: Iron and steel, BERLIN CONSTRUCTION CO., Berlin, Conn.; lighting, BALDWIN-STEWART ELECTRIC CO., Hartford, Conn.; marble and tile, WHITE & WHITEMORE, Hartford, Conn.

Hartford, Conn.—Bids will be received until Nov. 27 by Samuel M. Green, Inc., Springfield, Mass., for the erection of a new hotel building to replace the present Allyn House at Trumbull and Asylum Sts. The building will be 52 × 180 ft., ten stories high, of fireproof construction. The building will contain 275 rooms with bath connection. Robert J. Allyn, is the Proprietor. Noted July 27.

The Hartford Chamber of Commerce is planning the erection of an industrial building on Hawthorne St. It will be about 316 × 50 ft., of brick, four stories high. Charles D. Rice is Chmn. of the committee having the matter in charge.

Appropriations aggregating $165,000 were made by the last legislature for buildings at the Connecticut Agricultural College, Storrs, Conn.—a state institution. Thomas D. Bradstreet, State Comptroller, Capitol, Hartford, Conn., will receive until Dec. 5, competitive plans for this work, which is divided as follows: Dormitory, $75,000; poultry building, $25,000; horse barn, $10,000; dairy barn, $10,000; cottages, $25,000; addition to agricultural hall, $20,000. These appropriations include heating, grading, lighting and furnishing.

+New London, Conn.—The contract has been awarded to the H. R. DOUGLASS CO., New London, for additions and improvements amounting to about $100,000, at the residence of Morton F. Plant, on Eastern Point. An addition, 3 stories high, of stone with granite trim, will be built on the west side of the mansion. R. W. Gibson, 103 Park Ave., New York City, is the Arch.

+New York, N. Y.—Plans have been filed for the construction of an 8-story fireproof elevator apartment, 98 × 112 ft., on 81st St., near Amsterdam Ave. The building, which is being constructed for the S. B. Construction Co., will cost $400,000.

Severance & Schumm, Archs., have prepared plans for Henry Dazian, W. R. Rose and Tayman, for the construction of a 16-story office building at 18-22 West 45th St. The building will be 62 × 100 ft., and will cost approximately $600,000.

Stapleton, (S. I.) N. Y.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until Dec. 14, for the reconstruction, etc., (including plumbing) of the U. S. Marine Hospital, at Stapleton, Staten Island, N. Y. The work consists of the construction of two 3-story wings having a total ground area of 1,150 sq. ft., reconstructing the entire interior of the old building and adding a fourth story to a portion thereof. Drawings and specifications may be obtained from the Custodian of the building, or at the office of the Supervising Architect.

+Buffalo, N. Y.—The contract for the construction of a 6-story and basement warehouse, 140 × 130 ft., for the Keystone Warehouse Co. at Seneca, Alabama Sts. and the Pennsylvania R. R. has been awarded to the TURNER CONSTRUCTION CO., Prudential Bldg. It will be erected by the Keystone Warehouse Co. for the International Harvester Co., lessee.

+The general contract for the construction of a 4-story and basement store, office and club building, 66 × 35 ft., to be erected at Washington and Swan Sts. by Washington B. French, has been awarded to THE DUROLITHIC CO. W. S. Brickell, 595 Ellicott Square Bldg., is Arch.

Bids are being received by Francis G. Ward, Comr. of Public Works, Municipal Bldg., for remodeling the 65th Regiment Arsenal on Broadway into a city convention hall and exposition building for which plans have been prepared by City Arch. Howard L. Beck. The estimated cost is $140,000.

Archs. Bethune, Bethune & Fuchs, 215 Franklin St., have completed plans and are receiving bids for a 6-story and basement addition to the storage warehouse of the Niagara Storage Warehouse Co., Niagara and Georgia Sts.

Archs. Colson & Hudson, 35 Dun Bldg., have completed plans and are taking bids for a 2-story and basement store and office building, 150 × 300 ft., to be erected at Main and Northampton Sts. by the Main Street Realty & Construction Co. The estimated cost is $50,000.

***Valatie, N. Y.**—See "Proposals."

Jamestown, N. Y.—Jamestown Aerie Fraternal Order of Elks has completed plans and will soon let contracts for erection of a brick building on Washington St. between Third and Fourth Sts., for stores, offices, lodge and clubrooms.

Silver Springs, N. Y.—Officials of the Erie R. R. and of the Buffalo, Rochester & Pittsburgh R. R., have been here looking over sites proposed for the erection of a new passenger station and freight house.

Mount Vernon, N. Y.—The Board of Education (Frank M. Tichenor, Pres.) has adopted plans and specifications for a new high school building as revised by Goodwin, Starrett & Van Vleck, Archs., and bids for construction will be received until Nov. 27.

North Tonawanda, N. Y.—Arch. Leon Gray, Real Estate Exchange Bldg., has completed plans for a 3-story office building to be erected on North Niagara St. for J. J. Paterson, 264 Foundry St.

Syracuse, N. Y.—Wm. Cahill, 201 South Franklin St., will erect a store and theatre building on South Salina St., 80 × 176 ft. It will be seven stories high, of steel and concrete construction.

New Castle, Pa.—Plans are being prepared by the New Castle Lodge of Elks for the construction of a new home. The cost will be about $75,000.

Philadelphia, Pa.—A synagogue will be constructed at 2304-06 Mascher St. by the Love of Israel Congregation. Plans are being prepared by Magaziner & Potter.

Permits have been granted to Irwin & Leighton for the erection of passenger stations on the east and west sides of the Phila. & Reading R. R. at Ninth St. and Girard Ave. The buildings will be 26 × 88 ft. each and cost $50,000.

Pittsburgh, Pa.—The Lamont Hotel & Catering Co., which controls the Lamont Hotel at Sparhr and Adler Sts., will construct a $250,000 addition. Plans are being prepared by H. B. Lewis, New York, N. Y.

Wilkes-Barre, Pa.—The Dorrance Realty Co. will erect a 5-story fireproof office building on South Main St., to cost about $70,000. Pettibone, & Ireland, Second National Bank Bldg., are the Archs.

+Scranton, Pa.—The contract for the erection of a business and apartment structure at Capouse Ave. and New St. has been awarded to BOLAND BROS. by O'Connor & Blau.

Baltimore, Md.—Bids will be received until Nov. 29 by Charles M. Tickner, Pennsylvania and North Aves., for the construction of a 3-story apartment house at Elsinore and Duvall Aves., Buelah Villas. It will be of frame construction, 30 × 67 ft., and the estimated cost is $60,000.

+Baltimore, Md.—The contract for the erection of a 10-story fireproof apartment house on Eutaw Pl. has been awarded to J. H. MILLER, at $250,000. Glidden & Fritz are the Archs.

+Lexington, Va.—James Knox Taylor, Superv. Arch., Treasury, Washington, D. C., has awarded the contract for the construction of a U. S. post office at Lexington, Va., to GEORGE LEIGH & BRO., Louisa, Va., at $44,753. Noted Oct. 26.

+Roanoke, Va.—The Virginia Motor Car Co. will construct a 2-story, fireproof garage. The JEFFERSON STREET CO. holds the contract. Plans were prepared by Miller & Mahoon, Roanoke.

Claremont, Va.—Arch. C. Ruehrmund, 918 East Main St., Richmond, is preparing plans for improvements of the buildings for the Industrial and College Institute for Temperance. The estimated cost is $80,000.

Richmond, Va.—Plans are being prepared by Noland & Bakerville, Archs., Mutual Bldg., for the construction of a building for St. James Church on Monument Ave. The probable cost is $85,000.

Virginia Beach, Va.—H. H. Trice & Co., Norfolk, and others, have plans by Grenville Temple Snelling, 114 East 28th St., New York, for a proposed hotel to replace the burned Princess Anne Hotel. It will be five stories high, 84 × 300 ft. The building will contain 160 rooms and cost about $125,000.

Wheeling, W. Va.—Plans are being prepared by Edward B. Franzhiem, Schmulbach Bldg., for a $125,000 addition to the Hotel McClure, and also for the construction of a new $800,000 hotel.

+Raleigh, N. C.—The contract for the erection of the State Bldg. on Capitol Sq. has been awarded to JOHN T. WILSON CO., Richmond, Va., at $197,000. The structure will be 4 stories high, of fireproof construction. P. T. Mayre, Atlanta, Ga., is the Arch.

Newberry, S. C.—Bids were received as follows on Nov. 10, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post office at Newberry, S. C.; (a), limestone; (b), sandstone: Holladay & Crouse, Greensboro, N. C., (a) $54,300; (b) $55,500. Thomas H. Cissel, Connellsville, Pa., (a) $50,900; (b) $51,950. A. B. Stannard, New York, (a) $53,500; (b) $54,500. Barnes Bros., Logansport, Ind., (a) $49,700; (b) $51,000. Algernon Blair, Montgomery, Ala., (a) $52,850:

(b) $55,850. King Lumber Co., Charlottesville, Va., (a) $58,000; (b) $60,000. Newport Contracting & Engineering Co., Newport News, Va., (a)$54,568; (b) $55,568. Joseph Seay & Co., Goshen, Va., (a) $54,000; (b) $55,400.

Miami, Fla.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until Dec. 27 for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits, wiring and interior lighting fixtures) of the U. S. post office, court house and custom house at Miami, Fla. The building is of 3 stories, with basement and unfinished attic, and has a ground area of approximately 7,200 sq. ft. Fireproof construction throughout, stone facing, tile and copper roof. Drawings and specifications may be obtained from the Custodian of site at Miami, Fla., or at the office of the Supervising Architect.

Tampa, Fla.—The local lodge of Elks is considering plans for the erection of a lodge building at Florida Ave. and Madison St., to cost about $80,000.

Jackson, Miss.—Competitive plans will be received until Dec. 15 for a new building for the First Methodist Church, to cost about $65,000. Rev. A. F. Smith, Pastor.

Baton Rouge, La.—Bids will be received until Nov. 30 for the erection of a 6-story fireproof building for J. K. Roumain. Favrot & Livandais, 839 Gravier St., New Orleans, are the Archs.

***Clarksville, Tenn.**—See "Proposals."

+Louisville, Ky.—The contracts for the erection of a $45,000 railway Y. M. C. A. building, at 3d and A Sts., have been awarded as follows: Concrete work, SCHICKLI BROS.; stone work, JULIUS PIAZZA; brick work, JACOB HOERTZ.

Ashtabula, Ohio.—The National Order of Moose will probably construct a home here. The cost will be about $3,000,000. P. C. Remick and R. P. Reidenbach were chosen as a committee.

Cleveland, Ohio.—The erection of a 2-story brick clubhouse, costing $70,000, is being considered by the Deutscher Club. The building will be 74 × 223 ft. and be located on Clark Ave. M. M. Gluchman is the Arch.

Cleveland, Ohio.—Bids will be received by the city until Dec. 6 for the construction of the superstructure for the new City Hall. Hhe contract for the steel structural work has already been awarded.

+Niles, Ohio.—The contract for the construction of a theatre in this city has been awarded to C. G. DEPLANTY, Pittsburgh, Pa.

+Toledo, Ohio.—E. O. Fellis, Nasby Tower, Toledo, has awarded the following contracts for the new 1-story market house for the city of Toledo. General contract to S. J. PICKETT, 18 Smith Baker Bldg.; steam heating to ROBERT RAITZ & CO., 42 Superior St.; plumbing to WACHES & JACKSON, 613 Adams St. The cost is $100,000.

The Board of Education of Toledo, Ohio, are having plans prepared for a new 2-story and basement school building at Erie and Stickney Sts. Chas. Nordhoff is Arch. of the Bd. of Ed.

+Indianapolis, Ind.—A contract has been awarded to WILLIAM P. JUNGCLAUS CO. for the erection of a theatre on Indiana Ave. V. H. Winterrowd & Co., Indianapolis, are the Archs.

The trustees of Indiana University have selected Military Park as a site for the R. W. Long hospital and will ask for bids. The estimated cost is $200,000.

Indianapolis, Ind.—The Merchants' National Bank is receiving bids for the erection of the main portion of the proposed building on Sheridan and Washington Sts.

Rockport, Ind.—The local lodge I. O. O. F. have approved plans for a new lodge building. Bids will be asked for soon.

Marion, Ind.—Plans have been completed for the construction of a Masonic Temple at Fifth and Boots Sts. The cost will be about $40,000.

Vincennes, Ind.—Bids are being received by Campbell & Osterhage, Archs., 401 North First St., for the construction of a 4-story and basement Y. M. C. A. building. The estimated cost is $75,000.

Detroit, Mich.—Kahn & Vrilhy, Archs., Trussed Concrete Bldg., have been commissioned by the City Library Commission, Ralph Phelps, 17 Butler Bldg., Secy., to prepare plans for the erection of the new Carnegie Library, to cost about $50,000, to be located on Harper St.

Birmingham, Mich.—Van Leyen & Schilling, 1115 Union Trust Bldg., Detroit, are preparing plans for a new 2-story and basement school building, 50 × 95, for the city of Birmingham. A. H. Carter, Secy. of Bd. of Ed. The cost is estimated at $50,000.

Grand Rapids, Mich.—The Common Council of Grand Rapids has instructed the Board of Education to have plans and specifications made for a new high school building in the South End to cost about $250,000.

+Greenville, Mich.—E. A. Bond, 127 West Allegan St., Lansing, Mich., has awarded the general contract for a new 2-story and basement school building, for the city of Greenville, Mich., to C. M. MILLER, Commercial Bank, Greenville. The cost is $65,000.

+Hebberville, Mich.—White & Butterworth, 311 City National Bank Bldg., have awarded the following contracts for the new 1-story and basement school building, 50 × 90 ft., for the city of Webberville, Mich. General contract to H. M. SILSBY, Webberville. Steam heating to SHIELDS & LEADY, Lansing, Mich. The cost will be $40,000.

Chicago, Ill.—Plans have been completed for the construction of a large modern theatre combined with an office building of 16 stories at a cost of $2,700,000. H. H. Frazee, who is associated with Klaw & Erlanger, is interested. Bids will soon be asked.

Chicago, Ill.—Plans have been completed for the erection of a modern fireproof hospital for the use of surgical patients. It will accommodate over 2,000 persons and cost $3,000,000.

An apartment building, to cost $200,000, will be erected by L. E. Turner at Oakwood Boulevard and Ellis Ave. The structure will be 3 stories, will contain 100 apartments and will be 162 × 200 ft. H. H. Mahler, Chicago, is the Arch.

Elgin, Ill.—Plans are being prepared by W. A. Bennett, Arch., 35 South Dearborn St., Chicago, for the construction of a 250-room hotel for the Elgin Hotel Co. The estimated cost is $350,000.

Oak Forest, Ill.—Bids are being received by Arch. Paul Gerhardt, 64 West Randolph St., Chicago, for the erection of a Catholic church. The estimated cost is $75,000.

Alma, Wis.—The State Board of Control has approved plans for the new Buffalo County insane asylum, to be erected here. To have a capacity of 150 patients and cost about $100,000.

Milwaukee, Wis.—Van Ryn & De Gelleke, 725 Caswell Block, are preparing plans for the erection of an addition to the Milwaukee Normal School in the spring. It will be of reinforced concrete, 3 stories, 213 × 103 ft. and cost approximately $100,000.

+The contract for the concrete foundation and wood piling for the building to be erected by the Northwestern Mutual Life Insurance Co., at Wisconsin, Cass and Van Buren Sts., was awarded to the HEDDEN CONS. CO., New York, N. Y., at $225,000. The remainder of the building, which will be 7 stories and 180 ft. deep, will cost $4,000,000.

+St. Cloud, Minn.—The State Board of Control, P. M. Ringdal, Chn., has awarded the contract for the general construction of a 3-story school building for the State Normal School, to C. P. JOHNSON & CO., 214 Security Bank Bldg., Minneapolis, at $42,200. C. H. Johnston, is Arch., 715 Capital Bank Bldg., St. Paul.

Minneapolis, Minn.—Bids have been received for the high school building to be erected at Fourth Ave. and 34th St. The lowest bid received was that of Pike & Cook, at $398,445.

Dodge City, Kan.—Bids will be received until Nov. 20 by N. Mayrath, Chm. Bd. of Commrs., for constructing a court-house. R. A. Curtis, 526 Reserve Bldg., Kansas City, Mo., is the Arch.

Central City, Neb.—Bids will be received by the Board of Supervisors of Merrick County until 2 p. m., Dec. 12, for the erection of a court-house. Frank R. Nash is County Clk.

+Wahpeton, S. Dak.—The contract for the construction of a gymnasium and addition to two dormitories for the Indian School here, has been awarded to W. D. LOVELL, Minneapolis, Minn., at $47,900.

Kansas City, Mo.—Plans are being prepared by Frank P. Smith for the erection of a $1,000,000 hotel at McGee and 11th Sts.

St. Louis, Mo.—Plans have been completed for the new $60,000 home of the Mount Moriah Masonic Lodge which will be erected at Garrison Ave. and Natural Bridge Road. Mauran, Russell & Crowell are the Archs.

Jonesboro, Ark.—Bids were received as follows, on Nov. 7, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a U. S. post office building at Jonesboro, Ark.: (a) Limestone; (b) sandstone: Algernon Blair, Montgomery, Ala., (a) $79,390; (b) $82,600. Hiram Lloyd Bldg. & Construction Co., St. Louis, Mo., (a) $67,750; (b) $68,250. J. A. Anderson, Memphis, Tenn., (a) $85,000. Holladay & Crouse, Greensboro, N. C., (a) $75,974; (b) $76,774. J. N. Fairchild, Danville, Ill., (a) $66,990; (b) $67,626. King Lumber Co., Charlottesville, Va., (a) $76,000; (b) $80,000. Newport Contracting & Engineering Co., Newport News, Va., (a) $72,000, (b) $74,000; Glove Construction Co., St. Louis, Mo., (a) $74,960; L. R. Wright & Co., Dallas, Tex., (a) $87,463; Dieter & Wenzel Construction Co., Wichita, Kan., (a) $69,241, (b) $69,600; Latimer & Benning, Kansas City, Mo., (a) $78,819; M. Yeager & Sons, Danville, Ill., (a) $66,577, (b) $67,550; Bailey & Koerner, Louisville, Ky., (a) $82,165, (b) $83,165; George W. Stiles Construction Co., Chicago, (a) $71,347; Stuart-Randall Construction Co., Brockhaven, Miss., (a) $75,148, (b) $76,000.

Paragould, Ark.—Bids will be received at the office of the Supervising Arch., Washington, D. C., until 3 p. m., Dec. 19, for the construction, complete, including plumbing, gas piping, heating apparatus, electric conduit and wiring, and interior lighting fixtures, of a one-story and basement non-fireproof building with brick face and stone and terra cotta trimmings for the U. S. Post Office at this place.

Houston, Tex.—C. D. Reimers and associates will construct a new stock yards and accessory buildings here at a cost of about $300,000.

***Muskogee, Okla.**—See "Proposals."

Muskogee, Okla.—Bids will be received until Jan. 1 for the erection of a public library building to cost about $50,000. Henry D. Whitefield, 160 5th Ave., New York, N. Y., is Archt.

La Cruces, N. Mex.—The Mountain States Telephone & Telegraph Co., which has recently been incorporated, will erect a $60,000 building on Griggs St.

Spokane, Wash.—The city is planning to erect a $300,000 auditorium.

Portland, Ore.—An 8-story hotel building will be erected at 14th and Yamhill Sts. at a cost of $100,000. C. K. Henry is interested.

+Portland, Ore.—The contract for the construction of a parish house for the First Presbyterian Church at 13th and Alder Sts., has been awarded to BINGHAM & McCLELLAN, at $65,000. Doyle, Patterson & Beach are the Archs.

Eugene, Ore.—Leslie Furlong is preparing plans for a 2-story hotel to contain 50 rooms.

+Longbeach, Cal.—The contract for the erection of a business building on 5th St. and Elm Ave. has been awarded by the Pacific Telephone & Telegraph Co. to J. A. MATHIS, Los Angeles. The probable cost is $100,000.

Los Angeles, Cal.—A 4-story and basement apartment house will be erected at 6th and Loomis Sts. by I. M. Hollingsworth and W. H. Beman. The cost will be $80,000. C. F. Heimle is Arch.

+The general contract for the construction of a 3-story, brick building, 140x190 ft., for the Mary Andrews Clark Memorial Home of the Y. W. C. A., has been awarded to GEORGE H. WHYTE, Pasadena. The building will cost about $150,000.

+The general contract for the construction of the 11-story Van Nuys building at Seventh and Spring Sts., was awarded to WEYMOUTH CROWELL, Story Bldg., at $270,000. Morgan, Walls & Morgan, Archs., Story Bldg.

+The general contract for the construction of a 5-story reinforced concrete office building at Pomona, for the Pomona Investment Co., was awarded to CARL LEONARD, Hillman Bldg., at $67,900. BLUMVE & JAY CO., East 9th St., was awarded the plumbing contract at $10,000. The structure will be 68 × 90 ft. Davis & Higgs, Pomona, are the Archs.

+Los Angeles, Cal.—Contracts for construction of a 5-story reinforced-concrete building to be erected at Seventh and Los Angeles Sts., have been let to CARL LEONARDT at $115,000.

Plans have been prepared by Arch. R. B. Young & Son for a hotel to be erected on West Seventh St. The estimated cost is $1,000,000. It will be constructed of steel and reinforced concrete.

M. S. Yaeper & Co. have completed the plans for a $75,000 apartment house to be erected on Westlake Ave. near Pico St. for J. M. Kerr.

A. L. Haley, Arch., 909 Higgins Bldg., is preparing plans for a 7-story apartment hotel to be erected on Figueroa St. for W. C. Hatch, 212 Merchants Trust Bldg. It will be 100 × 165 ft. of the open stairway type and built around an open court.

John Luckenbach, of Luckenbach & Co., jewelers, will erect a 7-story and basement loft building at 316 Clay St., Los Angeles. Building to be fireproof and of reinforced concrete.

Martinez, Cal.—It is reported that the city is contemplating the erection of a 2-story city hall.

San Francisco, Cal.—MacDonald & Applegate, Archs., Call Bldg., are completing plans for a 6-story reinforced concrete store and loft building to be erected on Front St. for A. B. Spreckels. The estimated cost is $90,000.

Lewis P. Hobart, Arch., Crocker Bldg., has been commissioned to prepare plans and specifications for a modern hotel and store building, to be erected at Market and Ecker Sts., by the Crocker Estate. The structure will be five stories high and the cost is estimated at $150,000.

San Francisco, Cal.—Arch. C. O. Clausen, Phelan Bldg., is completing the plans for the construction of a brick and steel vaudeville theatre, to be erected in Point Richmond. The estimated cost is $100,000.

Sacramento, Cal.—The erection of a 4-story reinforced concrete warehouse at Second, Third and S Sts., is being contemplated by the Thompson Deggs Co.

Oakland, Cal.—Arch. Walter J. Mathews is preparing plans for alterations, to the amount of $75,000, to the present brick building located at Twelfth and Washington Sts., owned by the Blake Estate Co., whose intention is to make the building into a modern store and office structure.

Pasadena, Cal.—Bids will be received by the Board of Education until noon, Nov. 27, for the construction of the Polytechnic high school buildings, according to the revised plans of Norman F. March, 212 Broadway Central Bldg., Los Angeles, is the Arch. The sum of $400,000 is available.

Wilmington, Cal.—Allison & Allison were commissioned to prepare plans for the proposed high and elementary school to be erected at a cost of about $45,000.

+Pomona, Cal.—The Pomona Investment Co. has awarded the contract for the erection of a 5-story reinforced concrete building at Third and Thomas Sts. to CARL LEONARDT, Los Angeles, at $67,900. Noted Nov. 9.

San Diego, Cal.—The San Diego Consolidated Amusement Co., of Los Angeles, H. W. Nixon, Pres., is planning to build a $100,000 theatre.

Louis Landt is preparing plans for the erection of a $40,000 business building on the corner of First and [illegible] Sts.

Victoria, B. C.—The Vancouver Island Construction Co., of this city, is the lowest bidder on the $285,000 high-school building.

WATER SUPPLY—IRRIGATION.

(+*Denotes a contract awarded.*)

North Egremont, Mass.—The town is considering the installation of a gravity water-works system.

+Lowell, Mass.—The contract for the pumping station in connection with the new water supply has been awarded to PATRICK O'HEARN, at about $20,000; Frank A. Barbour, Tremont Bldg., Boston, Mass., is Consult. Engr.

+Boston, Mass.—The contract for laying about 3,000 ft. of 8 to [illegible]-in. water-pipe in various streets in the city has been awarded to RAFFELE CARTULLO. Louis K. Rourke is Comr. Pub. Wks.

+Lawrence, Mass.—The contract has been awarded to the LAWRENCE MACHINE CO., for the new 3,500,000-gallon centrifugal pump for the pumping station.

Shelburne, Mass.—The Special Fire District on Nov. 2 voted to issue $75,000 of bonds for installing a gravity water supply system.

+*New York, N. Y.—We are officially advised that the contract has been awarded by the Board of Water Supply to the F. V. SMITH CONTRACTING CO., Turnbull Ave. and Westchester Creek, New York, for Contract 75, for the Bay Ridge Conduit, at $237,000. Bids were opened on Oct. 31. List of bidders noted on Nov. 2.

+Gloucester, N. J.—The City Council has awarded the contract to EMMET BLACK for laying a water main in Brick St.

Philadelphia, Pa.—The Bureau of Water is considering a further extension of the filtration plants at an estimated cost of $600,000. George S. Webster is Ch. Bureau of Surveys.

Bellevue, Pa.—The Ohio Valley Water Co. has awarded the contract for equipping a new high service pumping station to the HARRIS PUMP & SUPPLY CO., of Pittsburgh, Pa. Chester & Fleming are Consult. Engrs.

+Pittsburgh, Pa.—Joseph G. Armstrong, Dir. Pub. Wks., on Nov. 1 awarded the contract to the DRAVO-DOYLE CO., Lewis Bldg., Pittsburgh, for the pumping engine for the Aspinwall pumping station, at $37,990.

Baltimore, Md.—The Board of Estimate has granted an appropriation of $100,000 to the Fire Commissioners for the completion of the high pressure pipe line system. D. B. Banks is Engr. Comrs. Noted on Nov. 9.

+*Colonial Beach, Va.—The contract has been awarded by the city to the NEWPORT CONSTRUCTION & ENGINEERING CO., of Newport News, Va., for constructing the water-works and sanitary sewer systems, and a sewage disposal plant, at $29,461.

Warwood, W. Va.—The Warwood Water & Light Co. has been incorporated to construct a water-works system here. John A. Moore, of Warwood, is Secy.

Weldon, N. C.—W. C. Reddick, of Raleigh, N. C., is preparing plans for the installation of water-works and a sewer system. Estimated cost, about $40,000. Noted on Oct. 5 and 19.

Augusta, Ga.—The Mayor has instructed Nisbet Wingfield to prepare estimates for water-works improvements. Estimated cost, $150,000.

Trenton, Tenn.—Bids will be received until 4 p. m., Nov. 17, by the Mayor and Board of Aldermen for the construction of water-works improvements. R. C. Huston, Exchange Bldg., Memphis, Tenn., is Consult. Engr.

Baxley, Ga.—Bids are asked at once by W. H. Watson, Mayor, for extending the water-works and constructing an electric light system. Noted on Oct. 19 and Nov. 2.

+Fairburn, Ga.—The city has awarded the contract to the J. B. McCRARY CO., Empire Bldg., Atlanta, Ga., for the construction of the water-works system.

Piedmont, Ala.—Bids will be received until Dec. 9 by the city for water-works extensions and an electric light plant. Estimated cost, $25,000. Noted on Nov. 2.

Nashville, Tenn.—The Board of Public Works has ordered a 6-in. water main laid to the Belle Meade property, a distance of four miles. W. W. Southgate is City Engr.

+Jellico, Tenn.—Contracts were awarded on Nov. 8 by the city as follows: For laying about six miles of mains and constructing a reinforced concrete reservoir, to HOWARD NEELY, of Mt. Pleasant, Tenn.; for hydrants, valves and boxes, to the COLUMBIAN IRON WORKS, of Chattanooga, Tenn. Walter G. Kirkpatrick, of Jackson, Miss., is Engr.

Hubbard, Ohio.—Bids will be received until Dec. 2 for the construction of a water-works system here. The work will require 5¾ miles of mains, stand pipe, pumping machinery, etc. William Wilson, C. E., Elks Bldg., Youngstown, Ohio, is Engr.

Portsmouth, Ohio.—The Directors of the Infirmary, Portsmouth, have decided to install a water-works system.

Warrensville, Ohio—The city of Cleveland will construct a 15,000,000-gallon reservoir at the City Farm here. Estimated cost, $156,000. Robert Hoffman is City Engr.

Cleveland, Ohio.—Bids were received on Oct. 31 by A. B. Lea, Dir. Pub. Ser., for furnishing the material and constructing the West Side tunnel for the Water Department as follows: O'Rourke Engineering & Construction Co., New York, $966,655 for concrete block construction; Holbrook, Cabot & Rollins Co., New York, $1,559,661 for concrete rammed-to-place type of construction.

Cleveland, Ohio.—Bids will be received by A. B. Lea, Dir. Pub. Ser., until noon, Nov. 21, for furnishing two 42-in. check valves and two 48-in. motor-operated gate valves for the Water Department.

Lakewood, Ohio.—Plans are being prepared by the William H. Evers Engineering Co., The Arcade, Cleveland, Ohio, for erecting a water tower here. Bonds have been voted.

Richmond, Ind.—The Board of County Commissioners will receive bids until Nov. 18 for the construction of a reinforced-concrete reservoir, 36 × 37 ft., at the Poor Farm. J. W. Mueller is Engr., Newcastle, Ind.

Morocco, Ind.—The Morocco Water Co., of Morocco, has been incorporated to build a deep-well water-works plant. The estimated cost is $50,000. C. E. Zollars and W. B. Bauer are Directors.

Rushville, Ill.—Bids will be received until 2 p. m., Dec. 4, by the city for the construction of a water-works system. The Fuller-Coult Co., Chemical Bldg., St. Louis, Mo., is Engr. H. F. Dyson is City Engr. Noted on Oct. 26 and Nov. 9.

San Jose, Ill.—The town is preparing to completely overhaul the water system. Melluish & Broybill, Consult. Engrs., of Bloomington, Ill., are preparing plans, specifications and estimates. Estimated cost, about $10,000.

***Bement, Ill.**—Bids were received on Nov. 2 by the village for pipe, valves, etc. The contract has been awarded to DELAHUNTY & CO., of Decatur, Ill.

Fox Lake, Wis.—We are officially advised that the Oscar Claussen Engineering Co., National German-American Bank Bldg., St. Paul, Minn., has prepared plans and a preliminary estimate of cost for the installation of a water-works system for Fox Lake.

✚Fairfield, Iowa.—The contract has been awarded to the JEWELL WATER IMPROVEMENT CO., of Chicago, Ill., for building a filter plant here at $16,000.

Blue Earth, Minn.—The City Clerk will receive bids until 7.30 p. m., Nov. 21, for a 100,000-gal. steel tank and 100-ft. tower.

Moorhead, Minn.—Bids will be received until Nov. 17 by the city for water mains.

✚South St. Paul, Minn.—The contract has been awarded to THORNTON BROS. for the extension of water mains in Concord St., for more than a mile south of Grand Ave.

Spring Valley, Minn.—The town has voted to issue bonds for the construction of a pumping station.

Abilene, Kan.—The City Engineer is preparing plans for water-works improvements.

Manhattan, Kan.—The city is considering improvements to the water-works system. Estimated cost, $80,000. A. O. Noble is City Engr.

✚Upland, Neb.—The contract has been awarded to the HASTINGS FOUNDRY & IRON WORKS, of Hastings, Neb., for the construction of a system of water-works here.

Hyannis, Neb.—The town has voted to issue $8,800 of bonds for water-works.

Cowley, Wyo.—The city is considering the installation of a water-works system. Estimated cost, $25,000. The Schenk & Newell Engineering Co., of Basin, Wyo., is Engr.

Medicine Bow, Wyo.—Turpin & Eldridge, Hugus Block, Rawlins, Wyo., are preparing plans for the installation of water-works here, to include the laying of 6,300 ft. of 6-in. and 1,400 ft. of 4-in. c.-i. pipe, a concrete reservoir of 250,000 gals. capacity, concrete settling basin and pumping plant.

Eureka, Mont.—Bids will be received until noon, Jan. 5, by the Commissioners of the Glen Irrigation District, L. B. J. Chapman, Secy., at Eureka, for constructing Contract Divisions Nos. 1 to 8 inclusive of their system of irrigation works. The work includes the following:

Contract-Division No. 1, earth and concrete diversion dam and waterweir about 115 ft. long; concrete headworks and gates, concrete 16 cu. yds.; embankment 120 cu. yds. clay; reinforcing steel, 1,100 lbs.; canal excavation, clay with small boulders 7,820 cu. yds. of excavation and borrow;

Contract-Division No. 2, Glen Lake reservoir-dam and outlet-tunnel and gates; Glen Lake Dam maximum length, 1,390 ft.; maximum height, 25½ ft.; average about 11 ft.; material, clay, gravity haul, about 25,000 cu. yds.; reinforcing steel, 950 lbs.

Contract-Division No. 3, open canal about 4½ miles long, including about 615 ft. of flume on trestle averaging about 8 ft. in height, 14 ft.; excavation about 50,000 cu. yds. clay.

Contract-Division No. 4, 38-in. pressure-pipe of wood; maximum pressure-head, 135 ft. and length about 1,390 ft., supported by 14-ft. trestle for 200 ft.; about 17,000 ft. of canal, loam, clay and hardpan, a total of about 45,000 cu. yds. of excavation; 38-in. pressure-pipe of wood; pressure-head 35 ft., length 460 ft.; two reinforced-concrete drops, total 81 cu. yds. of concrete, excavation about 750 cu. yds.; reinforcing steel about 3,000 lbs.; surface flume 900 ft. long, 4 ft. wide, of wood.

Contract-Division No. 5, 48-in. pressure-pipe of wood, length about 910 ft.; pressure-head 52 ft.; 42-in. pressure-pipe of wood, length 490 ft.; pressure-head 28 ft.; 38-in. pressure-pipe of wood, length 1,710 ft., pressure-head 46 ft.; 22,170 cu. yds. of excavation.

Contract-Division No. 6, approximately 45,000 cu. yds. of excavation, gravelly clay and loam, with small boulders.

Contract-Division No. 7, Ennis' Distributary, including 9,963 cu. yds. of excavation, chiefly loam; wooden flume, width 4 ft., depth 3 ft., average height about 24 ft., length 400 ft.; 22-in. pressure-pipe, length 1,900 ft., pressure-head 85 ft.; flume of wood, length 310 ft., width 4 ft., average height 22 ft., depth 2 ft.; Ellis' Lateral, including 24-in. wooden pressure-pipe, length 1,800 ft., pressure-head 40 ft.; excavation about 3,000 cu. yds. of loam, surface flume, width 4 ft., depth 1 ft., length 500 ft., width 2 ft., average height 7 ft.; Berry and West Laterals, including 1,500 cu. yds. of excavation, loam; 10-in. wooden pipe, etc., length 2,260 ft., head 35 ft.; flume length 370 ft., width 2 ft., depth 18 ins.; Garey-Peltier Lateral, including 3,000 cu. yds. of loam and clay excavation; 14-in. pressure-pipe, length 700 ft.; pressure head 20 ft.; flume, length 1,950 ft., width 2 ft., depth 1 ft., average height, 4 ft.; Garey Sublateral, 12-in. pressure-pipe, length 900 ft., pressure-head 20 ft.; excavation 500 cu. yds. of loam; flume, length 410 ft., width 12 ins., depth 12 ins., average height 2½ ft.; flume length 200 ft., depth and width 12 ins., average height 12 ft.

Contract-Division No. 8, Thorne Lateral, including 16-in. wooden pressure-pipe, head 65 ft., length 2,500 ft.; flume length 550 ft., width 2 ft., depth 18 ins., height 1 ft.; excavation 1,400 cu. yds. of loam and gravel; uiry Distributary, including 14-in. wooden pressure-pipe, length 1,250 ft., pressure-head 40 ft.; excavation 4,500 cu. yds. of loam; surface flume, length 50 ft., depth 1 ft., width 18 ins.; Purdy Lateral, 60 cu. yds. excavation, loam; and 10-in. wooden pipe, length 2,850 ft.; pressure-head 40 ft.; Demers Ditch, cleaning and widening; Belfry and Hamann Laterals. Each of the above Contract-Divisions include bridges, intakes, outlets to pressure-pipes and head-gates for all laterals.

Independence, Mo.—Bids will be received until Nov. 24 by L. M. Gilday, County Clk., Independence, for constructing a water supply pipe line from Independence, or Kansas City, Mo., to the Jackson County Home for the Aged and Infirm, and for a concrete reservoir; also for installing pumping machinery and furnishing and erecting the necessary piping and fittings. Burns & McDonnell are Consult. Engrs., Scarritt Bldg., Kansas City, Mo.

Webster Groves, Mo.—The city on Oct. 28 voted to issue $75,000 of bonds for the extension of the water-works system.

Pacific, Mo.—Bids will be received until 7.30 p. m., Nov. 27, by the City Clerk, for furnishing all the material and constructing a municipal water-works system. The Fuller-Coult Co., Chemical Bldg., St. Louis, Mo., is Engr. Noted on Oct. 5.

Kirkwood, Mo.—Hiram Phillips, Consult. Engr., Third National Bank Bldg., St. Louis, has prepared plans for a system of water-works at Kirkwood, for the city of Maplewood. Bonds for $75,000 have been voted.

Earl, Ark.—Two franchises have been granted by the City Council to James Z. George, of Memphis, Tenn., one for operating the water system, the other for operating the electric light and power plant.

Russellville, Ark.—Bids will be received until 2 p. m., Nov. 20, by the Russellville Water Co. for furnishing the material and constructing a water-works system in the city. The work will include 22,000 ft. of 10-in. wood stave pipe, 1,100 ft. of 10-in. c.-i. pipe, 3,075 ft. of 8-in. c.-i. pipe, 9,925 ft. of 6-in. c.-i. pipe, 5,680 ft. of 4-in. c.-i. pipe, 18 gate valves with boxes, 42 fire hydrants, six air pressure valves, two 500,000-gal. per day motor-driven turbine pumps, two 30-HP. 220-volt 3-phase, 60-cycle induction motors, one pump station and coagulating house, and a coagulating reservoir. Plans and specifications may be seen at the office of the company at Russellville, or at the office of the Fuller-Coult Co., Chemical Bldg., St. Louis, Mo., Consult. Engrs. Extra sets of plans and specifications may be obtained from the engineers upon payment of $3.

✚Dallas, Tex.—The contract has been awarded to the HARRIS AIR LIFT CO., of Dallas, by the City Commissioners for the installation of air lifts in four wells.

The City Commissioners are considering the erection of another dam up Elm Fork, above the California Crossing Dam.

Austin, Tex.—See item under Light, Heat and Power.

Anahuac, Tex.—The citizens have voted in favor of organizing the Trinity River Irrigation District to obtain water for irrigation from the Trinity River at a point 14 miles above its mouth. J. E. Broussard is Chn.

Temple, Tex.—Bids will be received until Nov. 18 by the Board of Water Commissioners for furnishing a horizontal, duplex, triplex expansion condensing pumping engine of capacity of 3,000,000 gallons in 24 hrs. Bids will also be received for a crank and wheel pumping engine with the same capacity.

Chandler, Okla.—Bids will be received by the city until 7 p. m., Nov. 21, for drilling a 2,500-ft. artesian well, city to furnish casing. J. B. Foster is City Clk.

Muskogee, Okla.—We are advised by Mayor O. H. Middleton that the city, with "mutual consent, has abrogated its contract with Alexander Potter to act simply as an advisory engineer on the improved water supply, sewerage system and garbage disposal plant now under constructios, and has entered into a new contract with him, placing the entire engineering work under his direction, control and responsibility."

Heavener, Okla.—The City Council will erect a dam 135 ft. long across Blackfork River for the purpose of conserving a supply of water at times when the river is low. Plans and specifications have been prepared.

Hugo, Colo.—The citizens on Oct. 31 voted in favor of issuing bonds for the installation of a municipal water plant. Peter O'Brien, Denver, Colo., is Engr.

Gunnison, Colo.—The city has sold bonds for $90,000 for water-works extensions.

✚Yuma, Ariz.—The Secretary of the Interior has approved the following contracts for the construction of earth work on the main canal on the California side of the Yuma Irrigation Project, Arizona-California. The work involves the excavation and placing of about 1,300,000 cu. yds. of material, divided into six schedules: Schedule 1, involving the excavation of 235,206 cu. yds., to DAVID MULLIGAN, of Yuma, at $45,714; Schedule 2, involving the excavation of 198,000 cu. yds., to GILLETTE & MONTGOMERY, of Los Angeles, Cal., at $42,507; Schedules 3 and 6, for 419,500 cu. yds. of material, to P. WALKER, of Los Angeles, at $82,731; Schedule 4, for 238,000 cu. yds. of material, to the STANDARD AMERICAN DREDGING CO., of San Francisco, Cal., at $44,065; Schedule 5, for 238,200 cu. yds. of material, to the HUDSON JOHNSON CONSTRUCTION CO., of Los Angeles, at $46,674. Total cost, $261,691.

Provo, Utah.—The Utah Lake Distributing Co., it is reported, has been formed, to supply water for domestic and irrigating purposes, with headquarters at Provo. The capital stock is $100,000. Jos. R. Murdock, of Heber, is Pres. and R. J. Murdock, of Provo, Secy.

✚Yerington, Nev.—The City Council has awarded the contract to the AMERICAN LIGHT & WATER CO., Chicago, Ill., for constructing the water-works.

Seattle, Wash.—The plans and specifications prepared by R. H. Thomson, City Engr., for the new dam for the Water Department in Cedar River, it is reported, have been approved by the City Council and Board of Public Works. The dam will be 640 ft. long and will impound water sufficient to guarantee a flow of 625 cu, ft. Estimated cost, $1,500,000.

Seattle, Wash.—The Council has decided to lay water mains in a portion of Belvidere Ave., 32d Ave. S. W., 38th Ave. S. W., 39th Ave. S.W. and 40th Ave. S. W. C. B. Bagley is Secy. Bd. Pub. Wks.

✚Sunnyside, Wash.—The Secretary of the Interior has awarded the contract to MATHIESON & WEBBER, of Sunnyside, for the construction of three concrete drops and excavating about 80,000 cu. yds. on Snipes Mountain Lateral, Sunnyside Unit, Yakima Irrigation Project, Wash., at $16,100. Noted on Nov. 2.

Elma, Wash.—Bids will be received until 3 p. m., Dec. 5, by C. N. Long, Town Clk., for furnishing the material and constructing a water-works system and pumping plant. Bids will be received on the following sections: (a) for the water-works system, (b) for digging and backfilling of trench for pipe, (c) for furnishing and laying pipe. Plans and specifications may be obtained from the Town Clerk or from L. C. Kelsey, Consult. Engr., Selling Bldg., Portland, Ore. Noted on Aug. 24 and Oct. 19.

Sutherlin, Ore.—The Fire and Water Committee of the City Council is considering plans for the installation of a water-works system.

Phoenix, Ore.—The town has voted in favor of issuing bonds for the installation of a water system.

✚Hermiston, Ore.—The contract has been awarded by the city to the NEWPORT LAND & CONSTRUCTION CO., of Hermiston, for the construction of the water system here, exclusive of wells, pumps, and other machinery, at $16,880. Noted on Aug. 17.

Monmouth, Ore.—Bids will be received by the City Recorder until 7.30 p. m., Nov. 28, for furnishing the material and labor and constructing a system of water-works. Plans and specifications may be seen and examined at the office of the City Recorder. Noted on Nov. 9.

Oakland, Cal.—The Southern Pacific Co. and the American-Hawaiian S.S. Co. will expend $35,000 for the installation of a modern salt-water fire-fighting system on the outer end of Long Wharf. The system will be modeled after the plant now in operation on the municipal docks in New York. W. Hood is Ch. Engr., Southern Pacific Co., San Francisco, Cal.

Orange, Cal.—The citizens on Nov. 3 voted in favor of issuing $55,000 of bonds for improvements to the water system and the Fire Department. Noted on Oct. 12.

Pasadena, Cal.—The Rubio Land & Water Co., of Pasadena, is planning to improve its pipe line system by building a large reservoir and putting in a larger pipe system and installing an electric pump.

Fullerton, Cal.—The City Trustees are considering the installation of a municipal water plant. Robert Meyers is interested.

El Centro, Cal.—Bids will be received until noon, Nov. 20 by W. H. Sprague, City Clk., for furnishing cement pipe, specials, valves, lamp holes and labor for installing same and for making connections to the present steel water pipes. The city will make all excavations, backfill all trenches for installation of pipe and specials and cut all steel pipe where connections are to be made.

Holtville, Cal.—T. A. Cox and others of Holtville have organized the Westside Irrigation District to embrace about 8,000 acres of land. Land has been filed on and preliminary surveys are now being made. A canal will be built.

✚Welland, Ont.—The city has awarded the contract to H. W. WELLER for the foundation work of the inlet to the pump house in connection with the addition to the water-works plant at about $75,000.

Southampton, Ont.—Bids are being received by Bowman & Connor, Consulting Engrs., Berlin, Ont., for an electric pumping unit for the water-works here.

Victoria, B. C.—We are officially advised that plans and specifications are now in preparation for the additional water supply for the city. The works will consist of dams, storage reservoirs, conduits and pressure pipes necessary for delivering daily about 16,000,000 Imperial gallons of water, which will be taken from Sooke Lake, located at an elevation of 550 ft. above sea-level, and situated in the mountains about 30 miles west of the city. The work is in charge of Wynn Meredith, Consult. Engr., for the city, who states that plans and specifications will be completed soon, when a call for bids on the entire work will be asked.

Coleman, Alta.—Plans are being prepared for the installation of a water-works system here.

SEWERAGE.

(**Denotes that this work is advertised in Engineering News.*)

***New Bedford, Mass.**—Bids will be received by the Mayor until 8 p. m., Dec. 12, for constructing Sections 1 and 2 of the Intercepting Sewer System. The contract includes about 12,000 lin. ft. of reinforced-concrete sewer. William F. Williams is City Engr.

New Bedford, Mass.—The City Council is considering the construction of sewers in Ingraham and Kearsarge Sts. Estimated cost, $9,000.

Boston, Mass.—Bids will be received until Nov. 17 by the Public Works Department for the construction of sewerage works in Everett St., Dorchester District. Louis K. Rourke is Comr. Pub. Wks.

Buffalo, N. Y.—Bids will be received by Francis G. Ward, Comr. Pub. Wks. until Nov. 22, for constructing from 16 to 36-in. brick and tile sewers in various streets.

✚Mt. Vernon, N. Y.—The contract for building a drain in Dell and Crescent Aves. has been awarded to FRANK NORDONE, Mt. Vernon, at $8,790.

Syracuse, N. Y.—The Board of Contract and Supply, John J. Halloran, Secy., have received bids for constructing a system of sewers covering about 2¼ miles in the Huntley Tract, as follows: C. J. Sullivan, $21,450; A. Sposato, $23,384; C. T. Hookway, $25,800; John Davin, Jr., $23,199; Blanche Gaffey, $23,113; James Swift, $24,007.

Watertown, N. Y.—E. W. Sayles, City Engr., has been directed by the Board of Public Works to prepare plans for sanitary sewers in Highland Ave. and Brett St.

Troy, N. Y.—See item under Streets and Roads.

Yonkers, N. Y.—Plans drawn by Andrew P. Hartmann, Engr. Bronx Valley Sewer Comn., providing for the extension of the outlet of the trunk sewer further out into the Hudson River at this point, at an estimated cost of $75,000, have been submitted to J. C. McReynolds, Asst. U. S. Atty. General, and

Col. W. M. Black, Ch. Engr., Corps Engrs., U. S. A., Division of the East, for government approval.

***Plainfield, N. J.**—Bids will be received by the Common Council until 8 p. m., Nov. 27, for the construction of sanitary sewers, including: 2,750 ft. 8-in. vitrified pipe sewer, less than 8 ft. deep; 676 ft. 8-in. c.-i. pipe sewer, less than 8 ft. deep; 9 manholes; 4 flushing connections; 1,710 ft. 2-in. w.-i. air main; 115 branches; 710 ft. 4-in. house connections; one operating vault; one pumping plant consisting of ejectors in duplicate, air receiver and pipe connections. Duplicate plans may be examined, and forms of proposals, specifications, contract and bond may be obtained at the office of Andrew J. Garrett, Engr. in Charge, 151 North Ave., Plainfield. James T. MacMurray is City Clk: Advertised last week.

South Orange, N. J.—Bids will be received by the Board of Village Trustees until Nov. 20, for constructing 10,000 lin. ft. of 8-in. sewers, 32 manholes, five flush tanks, 200 Y specials, and 500 cu. yds. of rock excavation; Edwin S. Allen is Chn. Sewer Com., and M. A. Fitzsimmons, Vil. Clk.

✚Summit, N. J.—We are officially advised that the contract for constructing the Summit-Milburn joint trunk sewer, was awarded Oct. 31, to P. CESTONE, at $8,960. The other bidders were: C. Ippolito, $10,501; East Orange Construction Co., $10,180; P. Muriello, $13,305; R. Klockner, $9,570; M. Garafano, $9,160. Noted Oct. 26.

***Norristown, Pa.**—The Borough of Norristown will receive propositions until Dec. 11 for a complete sewage disposal plant. S. Cameron Corson is Boro. Engr.

✚Mt. Alton, Pa.—The contract for additions to the sewage disposal plant of the State Sanatorium for tuberculosis near Mt. Alton, has been awarded by Dr. Samuel G. Dixon, Comr. of Health, to the LEY CONSTRUCTION CO., Pittsburgh, at $7,844. Other bids were as follows: Kingdom Construction Co., Baltimore, $8,818; Frank L. Gardner, Fayetteville, Pa., $10,931; Harrison & Schreiber, Philadelphia, $12,372.

***Ligonier, Pa.**—We are officially advised that no contract was awarded Nov. 2 for constructing a sewer system, sewage pumping and disposal plants. New bids will be received by the Borough Council until Nov. 24. The system includes 32,380 ft. of 6 to 15-in. vitrified pipe sewers. The pumping plant will consist of two 4 × 5-in. centrifugal pumps electrically driven and controlled, or two 250-gal. per minute sewage ejectors with air compressors and motors, and a receiving chamber, pump pit, building, etc. The purification plant will consist of sedimentation tanks, sprinkling filters, sludge bed, etc., designed to treat 200,000 gallons of sewage. Ira F. Brant is Secy. and F. H. Shaw, Engr. Noted Oct. 19.

***Baltimore, Md.**—We are officially advised that bids for Storm Water Contract No. 16, Section 2, Jones Falk Conduits, were received by the Sewerage Commission, Oct. 25, as follows: Fisher & Carozza, American Bldg., Baltimore, $703,990; Keystone State Construction Co., Philadelphia, Pa., $715,046; Lane Bros. Co., Altavista, Va., $754,001; Merrill-Ruckgaber Co., 30 Church St., New York, $827,575; Stamper, Ragland & Co., Richmond, Va., $821,771; B. F. Sweeten & Son, Baltimore, $830,320; Metropolitan Construction Co. and Patrick McGovern, Boston, Mass., $839,687; Sanford Brooks, 24 Commerce St., Baltimore, $892,868; S. Pearson & Son, 507 Fifth Ave., New York, $1,025,384; J. F. Cogan & Co., 280 Broadway, New York, $1,086,345. Calvin W. Hendrick is Ch. Engr. of Comn. Noted Oct. 5.

✚*Colinial Beach, Va.—See item under Water Supply-Irrigation.

Jellico, Tenn.—We are officially advised that all bids received on Nov. 8 by the city for about five miles of pipe sewers were rejected. New bids will be asked. Walter G. Kirkpatrick, of Jackson, Miss., is Engr.

Dayton, Ohio.—Plans for the Dry Hollow Creek sewer have been accepted by the City Council. The sewer will be of plain or reinforced cement and is estimated to cost about $125,000. F. J. Cellarius is City Engr. Noted Nov. 2.

✚Elyria, Ohio.—A contract for constructing sewers on East River St., from Fourth St. to the city limits has been awarded to the OHIO ENGINEERING CO., at $7,425.

Toledo, Ohio.—W. J. Sherman of the Riggs & Sherman Co., The Nasby, Toledo, has been engaged to prepare a report on the sewage pollution of Swan Creek and Ottawa River, and to recommend a plan for the relief of existing conditions, also to report on the general conditions of the sewer system of the city and the betterments most urgently needed.

Fort Wayne, Ind.—Preliminary plans have been prepared for sewer improvements to cost $513,000.

Indianapolis, Ind.—The State Board of Health has ordered the city to construct a sewage disposal plant to avoid further contamination of White River. Henry W. Klausman is City Engr.

✚Princeton, Ill.—A contract for sewer construction has been awarded to the HACKWORTHY CONSTRUCTION CO., Appleton, Wis., at $20,305.

✚Quincy, Ill.—Bids were received by the Board of Local Improvements Nov. 3, as follows: HENRY REES, Hampshire St. sewer, $5,616; Payson Ave. sewer, $7,000 (awarded contracts). Peter Simons, Hampshire St. sewer, $5,950; Payson Ave. sewer, $7,945.

Davenport, Iowa.—Bids will soon be asked for constructing 4,200 lin. ft. of 22-in. sewer on Gaines St.

Mount Pleasant, Iowa.—The citizens have voted against the proposition to construct two trunk sewer systems, at an estimated cost of $30,000. Noted Oct. 26.

Coffeyville, Kan.—Bids will soon be asked for constructing 8, 10 and 12-in. sewers in District No. 5. Estimated cost, $35,000. Clyde A. King is City Engr., and J. R. Elliott, City Clk.

St. Joseph, Mo.—Plans have been accepted for extending the lower Whitehead sewer. Estimated cost, $36,000.

✚Kansas City, Mo.—The contract for the construction of the Brush Creek sewer, from Tracey Ave. west to Main St., has been awarded to MICHAEL WALSH, Kansas City, at $47,369. Noted Oct. 12.

✚Osceola, Ark.—We are officially advised that the contract for constructing a sanitary sewer system and disposal plant has been awarded to ROETZEL & CHIPMAN, Mt. Carmel, Ill. Noted Nov. 2.

Celina, Tex.—Bids will be received until 5.30 p. m., Nov. 20, for street and sewer improvements estimated to cost $14,000. W. I. Bryan is Chn. Street Comrs. Noted Nov. 2.

Salt Lake City, Utah.—Bids will be received by the Board of Public Works, H. G. McMillan, Chn., until 7.30 p. m., Nov. 17, for constructing pipe sewers in Sewer Extension No. 295, according to plans and specifications on file with the City Engineer.

Las Vegas, Nev.—We are officially advised that the city has retained Louis C. Kelsey, Selling Bldg., Portland, Ore., as Consult. and Supervs. Engr., for the proposed sanitary sewerage system at Las Vegas, for which bonds for $40,000 were voted Oct. 10. Noted Nov. 2.

Spokane, Wash.—The only bid received Nov. 2 for the construction of the First Ward sub-trunk sewer No. 17 was submitted by De Camp & Cheatham, at $26.989. The bid was rejected and new bids will soon be asked. Noted Oct. 26.

✚Klamath Falls, Ore.—The contract for the construction of the Fourth Sewer Unit has been awarded to N. J. CHAPMAN, at $19,793. Noted Oct. 26.

✚Portland, Ore.—The contract for the construction of the Milwaukee and East 17th St. extension of the Holgate sewer has been awarded to WILLIAM LIND, at $11,584.

✚Los Angeles, Cal.—A contract for constructing 26,000 lin. ft. of main and lateral sewers has been awarded to WATSON & SPICER, at $15,000.

✚Lemoore, Cal.—The contract for constructing the municipal sanitary sewer system has been awarded to W. H. DUNLERY, 79 City Hall Ave., San Francisco, at $12,900. Noted Nov. 9.

✚Pomona, Cal.—A contract for sewer work on East Holt Ave., from Reservoir St. to San Antonia Ave., has been awarded to W. J. BRAND, Riverside, Cal., at $1.10 per lin. ft.

San Francisco, Cal.—Bids will be received by the Board of Public Works until 11 a. m., Nov. 17, for constructing a sewer in 23d Ave., from Geary to Anza St.

GARBAGE DISPOSAL.

(*✚Denotes a contract awarded.*)

Boston, Mass.—Bids for removing snow and ice in six districts will be received by the Public Works Department until Dec. 13. Louis K. Rourke is Comr. Pub. Wks.

***Boston, Mass.**—Bids will be received until noon, Dec. 5, by the city, for the disposal of refuse for a term of ten years from July 1, 1912. Louis K. Rourke is Comr. Pub. Wks. Advertised last week.

New York, N. Y.—See item under Miscellaneous Contracts — Retaining Wall.

Philadelphia, Pa.—Bids will be received by H. A. Mackay, Dir. Pub. Wks., until Nov. 22, for street cleaning and ash removal for one year. Separate bids are asked for eight districts, no contractor to be awarded more than two districts. Estimated total cost, $1,300,000.

Atlanta, Ga.—The purchase of 250 acres of land as a site on which to construct a crematory and garbage reduction plant was recommended to the General Council on Oct. 20 at a joint meeting of the Council Sewer Committee and the Bond Commission.

Louisville, Ky.—W. O. Head, Mayor, is considering an offer of J. T. Gathright, Paul Jones Bldg., Louisville, relative to garbage disposal. Mr. Gathright's plan contemplates the erection of a plant by the city to cost about $25,000, which, if after a trial of 30 days, it is found that the plant for reducing garbage works successfully, will be taken over by a private concern and maintained and operated at no cost to the city. If the city desires to operate the proposed plant itself, it is asserted, it will pay 10% on the investment.

Indianapolis, Ind.—Bids will soon be asked by the Board of Public Works for removing and disposing of garbage after May 26, 1912, when the present contract expires. It is probable that bids will be asked for a period of six years. Bids have already been asked twice, being rejected by the Board the first time. A contract was rejected by the City Council the second time because the figures submitted were believed excessive.

Berkeley, Cal.—A proposal to have the cities of Oakland and Berkeley join in erecting a common garbage incinerator, each city to pay a part of the expense of erection and maintenance, has been made to the City Council by the West Berkeley Improvement Club, following plans which have been under way in this city for some time to erect a municipal incinerator. A similar plan is under discussion in Oakland.

San Diego, Cal.—The Council Committee on Garbage Disposal has submitted a report recommending the erection of an incinerating plant, to cost $22,600. Edwin M. Capps is City Engr.

Toronto, Ont.—Rudolph Hering, Consult. Engr., 170 Broadway, New York, is preparing a report on the question of constructing a garbage disposal plant here. C. H. Rust is City Engr.

STREETS AND ROADS.

(**Denotes that this work is advertised in Engineering News.*)

Boston, Mass.—Bids will be received by the Public Works Department until Nov. 17 for the construction of tar macadam roadways in Canterbury St., West Roxbury, and in Fisher Ave., Roxbury. Louis K. Rourke is Comr. of Public Works.

***Blauvelt, N. Y.**—We are officially advised that bids for grading and constructing roads at the New York State Rifle Range were received Nov. 9 by the State Board of Armory Commissioners, Albany, as follows: Frank J. Gallagher, 490 Park Pl., Brooklyn, N. Y., $19,338; Frank Besch, Albany, N. Y., $21,750; Martin Murray, Troy, N. Y., $35,000; Robert W. McCready, Tuxedo Park, N. Y., $104,000. Noted Oct 26.

New York, N. Y.—Bids will be received by Alfred E. Steers, Pres. Boro. of Brooklyn, until 11 a. m., Nov. 22, for grading, curbing and paving various streets.

Troy, N. Y.—Bids will be received by the Board of Contract and Supply until Nov. 17 for sewer construction, grading, laying and curbing cobble stone gutter in Excelsior Ave., from Spring Ave. to end of Excelsior Ave.

***Elmira, N. Y.**—Bids will be received by O. H. Gardner, City Clk., until 11 a. m., Nov. 20, for repairing about 750 sq. yds. of asphalt pavement.

Fulton, N. Y.—The portion of Broadway running through the Oswego Falls section will probably be paved this year.

✚Wilkes-Barre, Pa.—The contract for paving Division St. has been awarded to the HERRICK CONSTRUCTION CO., at $7,300.

✚Philadelphia, Pa.—We are officially advised that the contract for repaving Race St. Pier with wood block was awarded Nov. 6 to the FILBERT PAVING & CONSTRUCTION CO., Pennsylvania Bldg., Philadelphia, at $13,000. Noted Nov. 2.

Natrona, Pa.—The Commissioners of Harrison Township have decided to widen Welsh St., from the tracks of the Pennsylvania R. R. to Garfield St.

Harrisburg, Pa.—Bids for constructing the third section of the road to be builtd under the Sproud main highway law, have been received by the State Highway Department as follows: Filbert Paving & Construction Co., Pennsylvania Bldg., Philadelphia, $21,255 for 2½-in. bituminous macadam; $22,415 for 3-in. bituminous macadam; $22,415 for 5-in. concrete base, 2-in. Filbertine top; Ambler-Davis Co., Harrison Bldg., Philadelphia, Bermudez Asphalt, $27,202, $27, 782, $26,622; Borneman Beitler Construction Co., Land Title Bldg., Philadelphia, Pa., $27,263 for 2½-in. bituminous macadam; J. F. Shanley Co., Arcade Bldg., Philadelphia, $29,292; Howellville limestone, asphaltic concrete; Monroe Paving Co., Stephen Girard Bldg., Philadelphia, $24,762 for limestone, Bermudez asphaltic cement; Hoff & Horn, Slatington, Pa., $27,425 for Dyer or Rockhill trap, Bermudez road asphalt; Wm. C. Evans, Amb'er, Pa. Howellville stone, $23,769 to $26,670; Thos. Meehan & Sons, Mt. Airy, Philadelphia, $29,496 for asphalt and $26,697 for for Hassam pavement; Chas. T. Eastburn, Yardley, Pa., $25,615, for trap rock and asphaltic concrete. The road will be about 6,500 ft. long. Noted Oct. 12.

Connellsville, Pa.—Bids will be received by A. O. Bixler, Boro. Secy., until 10 a. m., Nov. 21, for curbing with concrete portions of Sixth St. and Leisenring Ave.

✚*Baltimore, Md.—We are officially advised that the contract for improving five streets for which bids were received Nov. 8, was awarded Nov. 11 to the F. E. SCHNEIDER PAVING CO., Law Bldg., Baltimore, at $48,930. The item bids were: —— lin. ft. armored concrete curb circles, 70 cts.; 1,585 cu. yds. grading, 70 cts.; 16,727 sq. yds. sheet asphalt on cobble, 80 cts.; 4,740 sq. yds. sheet asphalt on 4-in. concrete base, $1.70; 1,210 lin. ft. old curb reset, 12 cts.; 6,780 lin. ft. old curb reset and redressed, 28 cts.; 175 lin. ft. old curb redressed in place, 22 cts.; 2,800 lin. ft. 6-in. unarmored concrete curb, 40 cts.; 40[illegible] yds. vitrified block repaving, 45 c[illegible] 1,070 lin. ft. granite block headers, [illegible] cts.; 350 sq. ft. old flagstone reset, [illegible] cts.; 4,322 sq. yds. vitrified block on 6-in. concrete base, $2.20; 2,180 sq. [illegible]s. cobble repaving, 25 cts.; 170 sq. [illegible] granite block repaving, 45 cts.; 1[illegible] sq. ft. replacing cement footways, [illegible] cts.; 100 sq. ft. replacing brick footways, 5 cts.; 999 cu. yds. concrete, other than base, $5; 78,160 sq. ft. cobble [illegible] sale, ½ ct.; 1,793 tons binder, [illegible]50. The only other bid received on the entire work was submitted by the Barber Asphalt Paving Co., Land Title Bldg., Philadelphia, at $54[illegible]. Noted Nov. 2.

Portsmouth, Va.—A plan to build a road from Portsmouth to Elizabeth City, N. C., is being considered by the Central Improvement Association, Portsmouth, the Board of Supervisors of Norfolk County, Va., and the Board of Supervisors of Camden County, N. C.

Norfolk, Va.—We are officially advised that the Finance Committee has recommended that the contract for constructing 15,000 sq. yds. of wood block pavement on Church St. be awarded to the U. S. Wood Preserving Co., 29 Broadway, New York, at $3.25 per sq. yd.

Middlebourne, W. Va.—Bids will be received by J. C. Warner, County Road Engr., until 1 p. m., Nov. 17, for the construction of fills and approaches from the public roads to the bridge across Middle Island Creek, Union District, near the mouth of Little Buffalo, in accordance with plans and specifications on file at the office of the Engineer.

St. Petersburg, Fla.—Bids will be received by the City Council until 7.30 p. m., Nov. 16, for grading and paving Ninth Ave., from Ninth to 15th Sts. Plans and specifications are on file with the City Engineer. W. F. Devine is City Clk.

Camden, Ala.—We are officially advised that no bids were received Nov. 7 for grading, draining and surfacing with gravel about three miles of State aid road. The work will probably be readvertised. W. S. Keller Montgomery, Ala., is State Highway Engr. Noted Oct. 19.

Dadeville, Ala.—Bids will be received by the Supervisors of Tallapoosa County until Dec. 1, for constructing a clay road from Dadeville to Miller's Ferry. J. R. Hall is Engr. in Charge.

Brandon, Miss.—We are officially advised that all bids received Nov. 6 by the Highway Commission of District No. 2, Rankin County, were rejected. New bids will be received until noon Dec. 4. The work includes 75,000 cu. yds. earth excavation, 1,000 cu. yds. rock excavation and 28,000 to 35,000 sq. yds. sand clay surfacing. J. A. Hammock, Brandon, is County Highway Engr. Noted Oct. 19.

✚Nashville, Tenn.—A contract has been awarded to THOMAS EAGAN for the construction of the cut-off road across the Algiers Peninsula, at 18 cts. per cu. yd. for earthwork, $15 per acre for clearing land and $70 each for drain boxes; total, $5,793.

Barberton, Ohio.—Bids for paving the approach to the Cornell St. Viaduct have been received as follows: Paul & Henry, $6,734; E. J. Lander, $6,639.

Lacarne, Ohio.—Bids will be received the Clerk of the Board of Trustees of Erie Township, Ottawa County, until noon, Nov. 23, for grading and constructing with waterbound limestone macadam .49 mile of the Bell Road in Erie Township. James R. Marker is State Highway Comr.

✚Logansport, Ind.—The contract for constructing the Hoffman Road has been awarded to J. H. NOVINGER, at $10,680. The other bids were: Beal & Pell, $10,987; Peter Healey, $11,000; Barnes & Grauel, $11,000; Martin McHale, $10,788; Walter Girton, $10,999; H. A. Barnes & Son, $10,864.

Indiana Road Improvements.

Bids for road improvements well be received as follows:

Dec. 4:

Williamsport, by Commissioners of Warren County, until 1 p. m., for the construction of a gravel road in Adams Civil Township. D. H. Moffit is County Audr.

Fowler, by Commissioners of Benton County, until 1 p. m., for the construction of free gravel roads in Union Center, Grove, Richland and York Townships. Lemuel Shipman is County Audr.

Greenfield, by Commissioners of Hancock County, until 2 p. m., for the construction of a macadam road in Sugar Grove Township. C. H. Troy is County Audr.

Huntington, by Commissioners of Huntington County, until 10 a. m., for the construrtion of a gravel road in Huntington Township. Jno. W. Weaver is County Audr.

Der. 5:

Logansport, by Commissioners of Cass County, until 10 a. m., for the ronstruction of a stone road in Miami Township. J. E. Wallace is County Audr.

Valparaiso, by Commissioners of Porter County, until 10 a. m., for the construction of gravel roads in oPrtage and Boone Townships. C. A. Blachley is County Audr.

✚Contracts have been awarded for the construction of gravel roads as follows:

By Commissioners of Adams County,

at Decatur, macadamized road in Jefferson Township to BECUS & BROWN, Geneva, Ind.; by Commissioners of Jefferson County, at Madison, gravel road in Monroe Township to J. J. DENNY & J. E. MILES, Bryansburg, Ind., at $4,681; by Commissioners of Daviess County, a gravel road to IRA COX, Elnora, Ind., at $4,750; by Commissioners of Dubois County at Jasper, a rock road in Columbia and Jefferson Townships to WEATHERS & CHASE, Marengo, Ind., at $19,249; by Commissioners of Knox County, at Vincennes, Ind., the Reed gravel road to H. F. JONES at $7,890; by Commissioners of Miami County at Peru, Ind., for three gravel roads to SULLIVAN & BOSWELL, Peru, at $2,339, $4,129 and $7,529, respectively; by Commissioners of Tipton County at Tipton, for two gravel roads to BROWN & HINES at total bid of $5,580; by Commissioners of Benton County at Fowler, for a stone road in York Township, to WM. MAHONEY, Green Castle, Ind., at $6,750; by Commissioners of Dearbourn County at Lawrenceburg, for a gravel road in Manchetser Township to J. F. BELLMAN at $19,796; by Commissioners of Vermillion County at Newport, for the A. B. Wilson gravel road in Helt Township to GEORGE W. SIKES, at $6,225.

Ann Arbor, Mich.—We are officially advised that Edwin W. Groves, City Engr., has prepared preliminary plans for approximately 100,000 sq. yds. of Dolarway paving on various streets. Work will not be started until spring. Noted incorrectly Nov. 9.

+Rantoul, Ill.—Press reports state that a contract for paving has been awarded to H. C. FINLEY, Hoopeston, Ill., at $24,000.

Ottawa, Kan.—Bids were received by G. E. Strauchon, City Clk., at 7.30 p. m., Nov. 15, for grading and macadamizing the road to Hope Cemetery, and West Second St., from Ash to Beach St. The work amounts to approximately 700 cu. yds. of excavation and 5,400 sq. yds. of macadam, 9-ins. deep.

+Hutchinson, Kan.—The contract for curbing Ave. E, from Main to Jefferson St., has been awarded to McLEOD & CRANDLE, Nickerson, Kan., at 29⅛ cts. per lin. ft. The other bids were: C. Howard, Hutchinson, 30 cts.; J. H. Shears Sons, Hutchinson, 29¾ cts.

+Wichita, Kan.—Contracts for street improvements have been awarded by the City Commission as follows: To H. L. MILES, for paving parts of Mentor and University Aves. with concrete, at 45 cts. per cu. yd. for excavation and 90 cts. per sq. yd. for paving; to A. T. BUCKERIDGE, for constructing curb and gutter on Mentor St., at 16 and 19 cts. per lin. ft., respectively, on Fountain Ave., at 19 cts. for curb, and 30 cts. for gutter, and on Second St. at 16 cts. for curb and 26 cts. for gutter; to MYERS & NEWCOMB, for constructing curb and gutter on University Ave. at 16 cts. and 19 cts. per lin. ft.; to the RACKLIFF-GIBSON CONSTRUCTION CO., for paving two blocks of Fountain Ave. with Hassam pavement, at 45 cts. per cu. yd. for excavation and $1.66 for paving; to JOHN RITCHIE & SON, for paving Second St., from Waco Ave. to Wichita St., with brick, at 54 cts. per cu. yd. for excavating and $1.83 for paving.

Salt Lake City, Utah.—Bids have been received by the Board of Public Works, as follows: for Sidewalk Extension No. 133; J. W. Mellen, $44,036; Zerbe, Walker & West, $46,851; Gillis Contracting Co., $47,691; C. H. Eldred & Co., $48,787; Consolidated Construction Co., $51,628; McKay & Reed, $52,429 for Paving Extension No. 73: (a) bituminous concrete and brick, (c) Warren Bros. bitulithic and stone, (d) Warren Bros. bitulithic and brick; P. J. Moran, (a) $34,943, (b) $34,616, (c) $39,151, (d) $38,825; Strange & Maguire, (c) $41,272, (d) $39, 736; Warren Construction Co., (c) $46,058, (d) $44,521. G. F. McGonagle is City Engr. Noted Oct. 12.

Woodland, Wash.—We are officially advised that no bids were received Nov. 6 for improving a portion of Front St. The work will probably be readvertised next year. L. Copf is Town Clk. Noted Nov. 2.

+North Yakima, Wash.—We are officialy advised that contracts for constructing one mile of highway were awarded Nov. 8 as follows: To D. A. BALL, at $3.75 per cu. yd.; to G. T. AUMILLER at $1.50 per cu. yd. Noted Nov. 2.

Milton, Ore.—The City Council has decided to have Main St. paved this year. H. L. Frazier is Mayor.

+Pomona, Cal.—The contract for paving Park Ave., from Second St. to Orange Grove Ave., has been awarded to the FAIRCHILD-WILTON-GILMORE CO., Los Angeles, at 21¾ cts. per sq. ft. for paving, 30 cts. per lin. ft. for curbing; $1,950 for cross-walks and $85.50 and $172.50 for pipe culverts.

Los Angeles, Cal.—The Board of Public Works have received bids for improving North Broadway, between Ord St. and the Los Angeles River as follows: The Barber Asphalt Paving Co., (1) 21.5 cts per sq. ft. for asphalt paving; (2) $2. per lin. ft. for grading, graveling and oiling; (3) 35 cts. per lin. ft. for cement curb; (4) 43.4 cts. per sq. ft. for granite block gutter; (5) 15 cts. per sq. ft. for cement gutter; (6) $10,040, for storm sewer; (7) $875 for catch basins; (12) $7,150 for concrete retaining structure; (13 $2,380 for concrete retaining wall; (14) $4,765 for concrete retaining wall; (15) $1,920 for storm drains; (17) 12 cts. per sq. ft. for cement sidewalk. Fairchild Gilmore Wilton Co., (1) 22.4 cts; (2) $1.90; (3) 37 cts.; (4) 40 cts.; (5) 16 cts.; (6) $8,200; (12) $7,000; (13 $1,700; (14) $3,500; (15) $1,690; (17) 13½ cts.

+Santa Monica, Cal.—Contracts for street work, aggregating $100,000 have been awarded as follows: to BRAUN, BRYANT & AUSTIN, Santa Monica, for improving Lake St. at 21 cts. per sq. ft. for asphalt paving, 19½ cts. per sq. ft. for cement gutter.

C. H. YEATON, 88 Colorado St., Los Angeles, for improving Montana St., between 26th and Stanford Sts.

J. D. KEEN, for improving Montana St. from Seventh to 29th St., at $2.58 per lin. ft. for grading and oiling; 31 cts. per lin. ft. for side walk and curb; for improving Sand St., at $2.27 per lin. ft. for grading; 11½ cts. for sidewalk and 32 cts. for curb.

Hemet, Cal.—Bids will soon be asked for paving Harvard St. and Florida Ave.

+Monterey, Cal.—We are officially advised that bids for macadamizing and constructing curbs, gutters and sidewalks on Van Buren St., from Scott to Granklin St., were received Nov. 7, as follows: John Taufner, $9,250; T. A. WORK CO., $8,990 (awarded contract). Noted Nov. 2.

MANUFACTURING PLANTS.

(+*Denotes a contract awarded.*)

Barre, Vt.—The Jones Bros. Co., is contemplating the erection of an addition to its plant at Barre.

New Bedford, Mass.—The New Bedford Textile Co. will erect a 2-story addition to its plant.

Lawrence, Mass.—The Done Mfg. Co., 258 Lowell St., will erect a manufacturing building at Union and Ireland Sts., South Lawrence. The structure will be of brick, two stories high, 100 × 53 ft. Cole & Costello are Archs.

+Lynn, Mass.—The contract for the factory to be built on Sea St., for Thomas W. Gardiner, 2 Box Pl., has been awarded to W. A. BROOKS, Verona St. The structure will be of wood, three stories high and will cost $40,000. David J. Sheehan, Broadway, is Arch.

New Bedford, Mass.—A rolling mill will be built by the Taunton-New Bedford Copper Co. on North Front St. This will be 350 × 100 ft., of brick, steel and concrete. The construction will begin before 1912 and the estimated cost is $250,000.

Pittsfield, Mass.—The Berkshire Woolen Co. is about to erect an addition to its plant. The structure will be three stories, of brick, 80 × 62 ft.

Springfield, Mass.—Daniel C. Shea and J. A. Mahoney are contemplating the erection of a 6-story factory building at Worthington and Fort Sts.

Hartford, Conn.—The Underwood Typewriter Co. will erect another new building. The structure will be about 217 × 50 ft.

Greenwood & Noerr, 847 Main St., Hartford, are preparing plans for an addition to the plant of the Hart & Hegeman Mfg. Co., on Capitol Ave.

New London, Conn.—Plans have been prepared by James S. Duffy, Arch., for an addition to the plant of the Keyes Process Co. It will be of brick and concrete construction.

Buffalo, N. Y.—Plans have been completed for a wood working and box factory to be erected for G. Elias & Bro., at Elk and Peabody Sts. and the Buffalo Creek R. R. The structure will be of brick two stories high.

+Paterson, N. Y.—The contracts for the construction of the Van Vlaanderen mill, at Broadway and Prospect St. have been awarded as follows: Mason work, ABRAHAM VAN DUIN, at $17,730; carpenter work, PETER J. RODGERS, at $15,320.

New York, N. Y.—The Henry Manufacturing Co. has been incorporated to manufacture automatic devices for starting gasoline engines. The company is capitalized at $100,000. A plant will be erected. William F. Mohr, 33 New St., is interested.

Erie, Pa.—The Erie Pump & Engine Works, Erie, Pa., has been incorporated by J. G. Bradt, Milton W. Shreve and D. H. Dumond, with a capital of $50,000, and will construct a plant in Erie.

Manayunk, Pa.—The Glen Willow Ice Co. is having plans prepared for an addition to its plant in Manayunk.

+Philadelphia, Pa.—The contract for the construction of a 2-story concrete warehouse, at Water and Tasher Sts., has been awarded to the VULCANITE PAVING CO.

The Union Fertilizing Co. has applied for a permit to construct a manufacturing and storage plant on the Delaware River south of Bigler St.

Sharon, Pa.—The Pennsylvania Tank Car Co. has been organized with a capital of $50,000 to manufacture tank cars. The company will erect a plant at Sharon. G. F. Woodsmith is Pres.

Wilkes-Barre, Pa.—The Stegmaier Brewing Co. will enlarge its present plant by erecting an additional storage house.

Wyandotte, Pa.—The Hallack Chemical Co., Philadelphia, will construct a plant in Wyandotte. The cost will be about $1,000,000.

Danville, Pa.—The erection of a branch plant at Danville, is contemplated by the Wyoming Valley Knitting Mills.

Richmond, Va.—Plans are being prepared for a 3-story factory building to be erected for the Southern Manufacturing Co., at Seventh and Perry Sts. The structure will be of brick, concrete and steel construction.

+Harriman, Tenn.—The contract for the construction of a creosoting plant at Harriman has been awarded to GEO. T. HOOD. The estimated cost is $50,000.

Louisville, Ky.—The plant of the Milton-Peter Manufacturing Co., Louisville, which was recently destroyed by fire, will be rebuilt.

Columbus, Ohio.—Plans have been filed for the construction of a 2-story factory at Fifth St. for J. T. Coalson.

Kent, Ohio.—The Criterion Motor Co. will probably construct a factory in the southern part of the town.

+Cleveland, Ohio.—The contract for the construction of a factory to be erected for the Cyclone Wire & Fence Co., on 55th St., has been awarded to J. H. VOGEL.

Toledo, Ohio.—The American Can Co. expects to erect an addition to its local plant. The cost will be about $100,000.

Plymouth, Ind.—The Tribbey Ice Co. intends razing their present plant and constructing a new one.

Battle Creek, Mich.—Plans are being prepared by R. A. Le Roy, 122 Pratt Bldg., Kalamazoo, for a 1-story factory building for the Goodale Co., of Kalamazoo, which will be built here. The estimated cost is $30,000.

Detroit, Mich.—The Studebaker Corporation will erect a steel stamping plant, storage warehouses and other buildings, on Vlark Ave., at a cost of $1,000,000. Also an addition to the E-M-F Plant No. 1 to cost approximately $150,000.

+The Forest City Engineering Co., 402 Superior Bldg., Cleveland, Ohio, has awarded contracts for the 1-story factory building for the Aluminum Casting Co. as follows: General contract, to MARTIN BUCKHEIMER, Detroit; steel work, RUSSEL WHEEL & FOUNDRY CO., Joseph Campau Ave. and Belt Line R. R., Detroit. The estimated cost is $35,000.

The Department of Public Works, 104 City Hall, have rejected all bids for the construction of a creosote plant. J. J. Haarar is Comr.

Plans are being prepared by Dunlap & Palmer, 726 Hammond Bldg., for three factories and an office building for the Hupp Motor Car Co., R. C. Hupp, Gen. Mgr., 1308 Jefferson Ave. Office building, two stories, 40 × 203 ft., and factories, two stories, 220 × 652 ft. each. The plant will be located on Milwaukee Ave. The estimated cost is $200,000. Noted Oct. 26.

The Michigan Steel Casting Co., 248 Guoin St., are having plans prepared for a 2-story foundry, 50 × 220 ft. Owners will purchase materials and sublet contracts. The estimated cost is $25,000.

Plans are being prepared by Albert Kahn and E. Wilby, Trussed Concrete Bldg., for a 1-story addition, 70 × 177 ft. for the Chalmers Motor Car Co. The estimated cost is $25,000.

W. H. Vollmer, 507 Chamber of Commerce Bldg., is preparing plans for a 2-story factory, 32 × 107 ft., for the Mozier Cigar Mfg. Co., Granby Ave.

+Albert Kahn and E. Wilby, Trussed Concrete Bldg., Detroit, have awarded contracts for the 2-story factory, 500 × 60 ft., for the Hudson Motor Co., 2901 Jefferson Ave., as follows: Masonry and carpentry, to A. J. SMITH CONSTRUCTION CO., 18 Campau Bldg.; painting to the VINTON CO., 120 Woodbridge St. East. The cost will be $80,000.

Plans are being prepared by R. E. Raseman, 1302 Penobscot Bldg., for a 1-story factory, 110 × 60 ft., and a 2-story factory, 320 × 140 ft., for the Kelsey Wheel Co. John Kelsey, 1208 Military Ave., is Gen. Mgr. The estimated cost is $45,000.

Plans are being prepared by B. C. Wetzel & Co., 404 Hammond Bldg., for a 2-story and basement laundry, 50 × 100 ft., for the Cross Laundry Co. L. A. Cross, 102 Randolph St., is Mgr. The estimated cost is $25,000.

Grand Rapids, Mich.—The Belcarmo Nut Butter Co. are having plans prepared for a 1-story factory building, 40 × 100 ft. The estimated cost is $25,000. A. A. Flory is Gen. Mgr.

Chicago, Ill.—The C. D. Osborn Glove Mfg. Co. will erect a 3-story building at Leavitt St. and Wabansia Ave., at a cost of $50,000. The building will be 97 × 109 ft. W. H. Pruyn & Co. are the Archs.

Chicago, Ill.—The Western Brass Mfg. Co., Chicago, will construct a three-story brick shop and warehouse at 2005-2011 Marshall Blvd., Chicago.

+Milwaukee, Wis.—The contract has been awarded to HENRY DANISCHEFSKY for the construction of the ice plant for the Schlitz Brewing Co., on Walnut St. The estimated cost is $100,000.

Plans are being prepared by E. R. Liebert for the construction of a 5-story addition to the Albert Trostel tannery.

The Lavine Gear Co., Detroit, Mich., contemplates the erection of a $100,000 factory here next year.

Jefferson, Wis.—The Sheboygan Evaporated Milk Co. will erect a 2-story addition to the present plant next spring.

+Contracts for constructing a factory for the Waverly Motor Cycle Co. have been awarded as follows: Mason work, J. J. SPANGLER; carpenter work, LADIEN & STENGEL; metal work, J. W. ROBISH, and plumbing, CLARENCE PUERNER.

St. Louis, Mo.—Plans have been prepared by William A. Lucas for a 6-story factory and office building to be erected for the Koken Barber Supply Co., at Texas Ave. and Sidney St. The estimated cost is $200,000.

St. Louis, Mo.—We are officially advised that Edward Flad & Co., Engrs., Fullerton Bldg., are receiving bids for a leather drying apparatus including fan. Capacity 25,000 cu. ft. per min., heater, housing, ducts, etc., to be installed in the plant of Byrnes Belting Co.

Alpine, Tex.—Oscar Pacius of Sanderson, Texas and associates will erect a factory for the manufacture of wax from the candelilla plant.

Crockett, Tex.—The Payne-Parsley Machine & Manufacturing Co., will rebuild their cotton chopping machine factory, which was recently destroyed by fire.

+San Benito, Tex.—The INTERMITTENT VACUUM PRE-COOLING CO., Wilmington Del., has been awarded the contract for installing a pre-cooling plant at a cost of $100,000. The plant will have a daily capacity of about 50 cars. S. A. Robertson of San Benito and associates are interested in the project.

Luling, Tex.—F. Homan is contemplating the erection of a factory on the San Marcos River at Luling.

Orange, Tex.—C. H. Lennox of Chicago has under consideration the installation of a large plant here for the manufacture of boilers.

Newton, Tex.—Sterling & Sheffield will install a large plant here for the manufacture of spokes and handles.

Oklahoma City, Okla.—The N. S. Sherman Warehouse will erect a large warehouse at Main St. near the Atchison, Topeka & Santa Fe R. R. The cost will be about $275,000.

Chehalis, Wash.—The plant of O. K. Palmer, which was recently destroyed by fire, will be rebuilt. The cost will be about $25,000.

Aberdeen, Wash.—The Western Cooperage Co. will expend about $30,000 on the construction of 12 kilns and the installation of additional machinery.

Portland, Ore.—The Beloit Machine Works, Beloit, Wis., will erect a branch factory at Portland. The approximate cost is $500,000.

Three Rivers, Ore.—The Webasso Cotton Co., is contemplating the erection of a mill at Three Rivers.

Oakland, Cal.—Articles of incorporation have been filed by the Oakland Elevator Co. The incorporators are: W. J. Wigmore, A. R. Hanson and W. H. Buttner. The company will construct a plant.

+Oakland, Cal.—The Atlas Gas Engine Co., Eleventh Ave. and East Ninth St., have awarded the contract to C. CHRISTENSEN, 23 Wayne Ave., for the construction of a machine shop, a pattern shop and an office building at the foot of 20th Ave. The cost is $9,000.

+Santa Ana, Cal.—The contract for the construction of a sugar factory for the Santa Ana Co-operative Sugar Co. has been awarded to DYER CO., Cincinnati, Ohio, at $550,000.

+San Francisco, Cal.—The contract for the construction of a steel foundry to be erected for the Union Iron Works has been awarded to THOMAS H. DAY SONS, 725 Mission St., at $43,000.

St. Thomas, Ont.—The Monarch Knitting Co. will erect an addition to its plant to cost about $60,000.

Windsor, Ont.—Mildner & Eisen, 1018 Hammond Bldg., Detroit, Mich., are preparing plans for a 4-story and basement addition, 56 × 60 ft., to the plant of the British American Brewing Co., at Windsor. The estimated cost is $80,000.

MISCELLANEOUS CONTRACTS.

(**Denotes that this work is advertised in Engineering News.*)

U. S. RECLAMATION SERVICE.—All news concerning canal and Irrigation projects, etc., will be found under Water Supply—Irrigation.

+Towboats.—Boston, Mass. — Bids were received on Nov. 6 by the Metropolitan Park Commission, 14 Beacon St., Boston, for furnishing towboats for breaking ice in the channels of the Charles River Basin. The contract has been awarded to J. P. O'RIORDON, of Charlestown, Mass.

+Waterfront Improvements.—Boston, Mass.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., has awarded the contract for improvements to the waterfront at the Boston Navy Yard to the RIVERSIDE CONTRACTING CO., 39 Cortlandt St., New York, at $54,716. Bids were opened on Oct. 21. List of bidders noted on Nov. 2.

Subway.—Boston, Mass.—It is the intention of the Transit Commission to advertise for bids on three sections of the subway work about Feb. 1. Work will begin at the same time on the Boylston St., the South Station and the South Boston Subways. Edmund S. Davis is Ch. Engr. Comn., Boston.

Rebuilding Piers.—Boston, Mass.—Bids will be received until Nov. 21 by the Public Works Department for rebuilding the piers at the North Ferry, Boston side. Louis K. Rourke is Comr.

Soil Work.—Boston Mass.—Bids will be received by the Public Grounds Department until Dec. 1 for soil work on Boston Common. C. Henry Sullivan is Supt. Public Grounds.

Gymnasium. — Lowell. Mass. — The Rogers School will construct a gymnasium, 95 × 42 ft. Estimated cost, $25,000.

· **Fencing.**—New Bedford, Mass.—Bids will be received by the Playground Commission, F. W. Francis, Chn., until 4 p. m., Nov. 17, for furnishing fencing for playground.

✚Crushed Stone.—Hartford, Conn.—Bids were received as follows on Oct. 30, for furnishing the city with crushed stone for five years from Jan. 1, 1912: E. M. KEENAN, Hartford, 85 cts. to $1.20 per ton (awarded contract); New England Trap Rock Co., $1.03 to $1.19 per ton.

Covering Brook.—Hartford, Conn.—The Board of Street Commissioners has decided to cover Gully Brook and the Engineering Department has been requested to make a report concerning the work. Estimated cost, $100,000. R. N. Clark is City Engr.

Grade Crossing Elimination.—Albany, N. Y.—The Public Service Commission, Second District, will soon inspect the plans submitted by the New York Central & Hudson River R. R. Co. for the elimination of a grade crossing at North Pearl and Van Woert Sts. The cost is estimated at $400,000, of which the city is to pay one-quarter. The railroad tracks are to be overhead and two streets are to be depressed. The extensive changes of grade in the large improvement area will require the reconstruction and relocation of gas and water mains, sewers, electric light conduits and other sub-surface fixtures.

✚Elevators.—New York, N. Y.—The OTIS ELEVATOR CO., 17 Battery Pl., New York, has been awarded the contract for installing 29 elevators in the new Woolworth Bldg.

Office.—New York, N. Y.—Bids will be received until 3 p. m., Nov. 23, by the Park Board, Dept. of Parks, Arsenal Bldg., Fifth Ave. and 64th St., Boro. Manhattan, for all labor and materials required for the erection and completion of an engineering and construction office, located in Forest Park, Boro. Queens, together with all the work incidental thereto.

Field House.—New York, N. Y.—Bids were received as follows on Nov. 2 by the Park Board, Dept. of Parks, Boro. Manhattan, for all labor and materials required for the erection and completion of a field house in the West 59th St. Playground, Boro. Manhattan: Edmund D. Broderick, 1382 Lexington Ave., $33,980; Brody, Adler & Koch Co., 38 West 32d St., $47,400; Cockerill & Little Co., Inc., 1968 Broadway, $27,893; George F. Driscoll, 548 Union St., Brooklyn, $30,586; Harry Hansen, 2241 Homecrest Ave., $31,500; A. V. Johnson, 43 West 27th St., $34,883; Kelly & Kelley, Inc., 12th St. and Vernon Ave., Long Island City, $29,911; the Merrick Fireproofing Co., 1 Broadway, $24.900; William A. McCloskey, 331 Madison Ave., $29,675; Daniel J. Ryan, 723 Third Ave., Brooklyn, $31,992; J. I. Valentine, 150 Nassau St., $33,440; Charles Wills, 1293 Second Ave., $29,898. All bidders of New York unless otherwise stated.

***Subway.**—New York, N. Y.—Bids will be received until Dec. 5 by the Public Service Commission for the construction of Section 9 of the Lexington Ave. Subway, Tri-Borough Subway System. Plans for this section call for the construction of a 4-track double-deck subway from a point just north of 67th St. to a point about 70 ft. south of 79th St., with stations at 68th and 77th Sts. This section was advertised for bids to be opened on Oct. 27, 1910, with other sections of the Lexington Ave. route, only one bid being received, that of the Bradley Contracting Co., at $2,447,480. There being only one bid the Commission decided that there had not been competitive bidding for this section and decided to readvertise it. In the meantime the plans have been changed to conform to the reduced cross section of the proposed subway and a new contract has been drawn. Noted on Nov. 3, 1910.

***✚Subway.**—New York, N. Y.—The contract for Section 15 of the Lexington Ave. Subway, Tri-Borough Subway System, has been awarded to the HAGGERTY-DRUMMOND CO., 41 Park Row, New York, at $3,820,129. Itemized bids noted under Contract Prices on Nov. 3, 1910.

Retaining Wall.—New York, N. Y.—Bids will be received by George Cromwell, Pres. Boro. Richmond, until noon, Nov. 21, for furnishing all the labor and materials required for the construction of a concrete retaining wall, gateways, gates and appurtenances at the Clifton Destructor property, Tompkins Ave., Clifton, Boro. Richmond.

✚Repairing Pier.—New York, N. Y.—The lowest bid for repairing the pier at East 96th St., East River, Boro. Manhattan, has been awarded by the Department of Docks and Ferries has been submitted by the PHOENIX CONSTRUCTION CO., 41 Park Row, New York, at $12,497. Bids were opened on Nov. 6 by Calvin Tomkins, Comr.

***Sand Handling Machinery.**—Peekskill, N. Y.—The National Sand & Development Co., of Peekskill, are prepared to receive bids for the installation of excavating, crushing, screening and washing plant for handling its sand at Peekskill. Communications should be addressed to Geo. H. Rice, Secy., Peekskill. Plants are to be capable of handling 1,000 cu. yds. per day.

Dock.—Whitestone (L. I.), N. Y.—A public dock will be constructed here, money having been appropriated for the purpose.

Dredging.—Newark, N. J.—Bids were received on Nov. 9 by the Board of Street and Water Commissioners for dredging the Passaic River from the easterly end of the dock of the Lister Agricultural Chemical Co. westerly 2,000 ft. The Newark Meadows Improvement Co. was the lowest bidder at $13,200.

Retaining Wall.—Newark, N. J.—See item under Light, Heat and Power Plants.

***Light Station.**—Philadelphia, Pa.—Bids will be received until 2 p. m., Dec. 16, by Com. H. O. Stickney, U. S. N., Lighthouse Inspector, Philadelphia, for furnishing material and labor of all kinds necessary to complete concrete filling of foundation and erect the superstructure, etc., of Miah Maul Shoal Light Station, Delaware Bay, N. J., in accordance with specifications, copies of which with blank proposals and other information may be had upon application to the Inspector.

Park.—Philadelphia, Pa.—A large park will be laid out on Pettys Island in the Delaware River. Robert Walter, of the Philadelphia Exposition Association, is interested.

Elevator.—Pittsburgh, Pa.—D. G. Stewart, Wilkins and Fifth Avenues, Pittsburgh, has announced that he will at once erect a reinforced concrete elevator to take the place of the 4-story frame elevator, 100 × 150 ft., on West Carson St., which was destroyed by fire on Nov. 8. This elevator was operated by Mr. Stewart and J. A. A. Geidel, 5638 Northumberland Ave., under the title of the Iron City Elevator Co.

***Hospital Equipment.**—Pottsville, Pa.—See "Proposals."

Jetty.—Wilmington, Del.—Bids for jetty construction at the mouth of Mantua Creek, N. J., were received by Maj. R. R. Raymond, Corps Engrs., U. S. A., Wilmington, on Oct. 30, as follows: Item (1) jetty; (2) sheet pile reinforcement; Armstrong & Latta Co., Philadelphia, Pa., Item (1) $12.49, (2) $4.59; Richard Parrott, Newburgh, (1) $11.78, (2) $4.40; Latta & Terry Construction Co., Philadelphia, Pa., (1) $11.40, (2) $4.75; Tatnall-Brown Co., Wilmington, (1) $10.90, (2) $4.95; U. S. Drainage & Irrigation Co., New York, (1) $11, (2) $4.85.

Jetty Work.—Wilmington, Del.—Bids for jetty work at the mouth of the Broadkill River, Del., were received by Maj. R. R. Raymond, Corps Engrs., U. S. A., Wilmington, on Nov. 6, as follows: (a) reinforcing, (b) stone: U. S. Drainage & Irrigation Co., New York, (a) $9.87, (b) $4; Fratnall-Brown Co., Wilmington, (a) $11.90, (b) $4; William W. Conwell, Milton, Del., (a) $12.38, (b) $2.86.

Pier.—Baltimore, Md. — The Mayor and City Council will construct a commercial and recreation pier, to cost $450,000. Bids for construction will be asked during the spring of 1912. Oscar T. Lackey is Harbor Engr.

✚Pier.—Baltimore, Md.—The contract for the erection of the large, open, merchandise pier at Port Covington for the Western Maryland Ry. Co. has been let to the SANDFORD & BROOKS CO., of Baltimore.

Gun Carriages.—Washington, D. C.—Bids will be received until noon, Dec. 1, by Brig.-Gen. Wm. Crozier, U. S. A., Ch. of Ordnance, Washington, for furnishing 40 3-in. gun carriages, Model 1902.

Projectiles.—Washington, D. C.—Bids were received as follows on Nov. 9, by the Chief of Ordnance, Navy Dept., Washington, for the following projectiles, (a) 50,000 1-pounder target projectiles; (b) 10,000 3-pounder; (c) 10,000 6-pounder; (d) 10,000 3-in.; (e) 1,000 5-in.; (f) 1,500 8-in.; (g) 1,200 12-in.: Bethlehem Steel Co., South Bethlehem, Pa., (a) 58 cts., (b) $1.34, (c) $1.63, (d) $2.37, (e) $8.15, (f) $16.48, (g) $36.48; Midvale Steel Co., Philadelphia, Pa., (e) $15.15, (f) $24.45, (g) $51; American & British Mfg. Co., Bridgeport, Conn., (a) 61 cts., (b) $1.29, (c) $1.55, (d) $2.47, (e) $8.60; E. W. Bliss Co., Brooklyn, N. Y., (d) $2.60, (e) $8; Tredegar Co., Richmond, Va., (e) $6.70, (f) $16.40, (g) $37.

***Bulkhead Wharf.**—Richmond, Va.—Bids will be received by the Committee on James River Improvement until 3 p. m., Nov. 29, for the construction of a timber and pile bulkhead wharf along the north shore of James River, in the city of Richmond, from Gillies Creek to Nicholson St., about 700 ft. long. Separate proposals will also be received for the removal of earth, gravel, loose rock and solid rock between face of wharf and the channel. Information, plans and specifications can be obtained at Richmond. All bidders are required to examine site before submitting bids, to determine conditions. Charles E. Bolling is City Engr.

Canal.—Tallahassee, Fla.—The Trustees of the Internal Improvement Board of Florida are planning to spend about $200,000 for the construction of a canal from Lake Okeechobee to Lake Worth. Surveys of two proposed routes have been made. J. O. Wright, of Tallahassee, Fla., is Ch. Drainage Engr.

Repairs to Conveyors.—Key West, Fla.—Bids will be received until Dec. 2 by the Bureau Yards and Docks, Navy Dept., Washington, D. C., for repairs to two conveyors of Coal Shed A, at the U. S. Naval Station, Key West, as per Specification No. 1833. Estimated cost, $18,000.

Dredge Fill.—New Smyrna, Fla.—Bids will be received until Nov. 20 by Laws & Lovejoy, at the office of D. D. & C. M. Rogers, Engrs., Daytona, for constructing 33,000 cu. yds. of dredge fill here.

Drainage.—Greenville, Miss.—We are officially advised that preliminary surveys for the Riverside Drainage District, comprising an area of about 100,000 acres, have been completed, and it is expected that bids will be asked for Jan. 1, 1912. W. W. Miller is Clk.

Drainage.—New Orleans, La.—The Bayou Cane Land Co., 632 Gravier St., New Orleans, will open bids about Jan. 15 for the reclamation of 4,416 acres of land in Terrebonne Parish, including canals, laterals, pumping station, etc. Estimated cost, $100,000. The John A. Kruse Engineering Co., Hibernia Bank Bldg., New Orleans, is Engr.

Grade Crossing Elimination.—Columbus, Ohio.—Ordinances have been introduced in the City Council providing for plans and specifications for the elimination of grade crossings at Dennison Ave., Second Ave., Fifth Ave., Eleventh Ave., Seventeenth Ave., Clifton St., Main St., Rich St., Oak St., Broad St., Long St., Franklin Park, South, and Bryden Road. A bond issue for $700,000 for the city's share of the work has been voted.

Dock.—Cleveland Ohio.—The Detroit & Cleveland Boat Co. and the Cleveland & Buffalo Boat Co. are considering the construction of steel and concrete piers at East Ninth St.

✚Steamer.—Cleveland, Ohio.—A contract has been awarded to the AMERICAN SHIPBUILDING CO., of Cleveland, by the Graham & Morton Transportation Co., of Chicago, Ill., for constructing a 300-ft. passenger steamer, at $400,000.

Fire Apparatus.—Marion, Ohio.—Bids will be received by James A. Knapp, Dir. Pub. Safety, until noon, Nov. 23, for furnishing and delivering one automobile fire-engine, one combination chemical hose-wagon and one chief's car. Charles M. Tobin is City Clk.

Ditch.—Brownstown, Ind.—Bids will be received until Nov. 21 by Samuel Carr, Drainage Comr., at the office of the Clerk of Jackson Circuit Court, Brownstown, for constructing a ditch 28,675 ft. long, to be constructed by dredge.

Dredging. — Evansville, Ind. — The Cleveland, Cincinnati, Chicago & St. Louis Ry. Co., it is reported will dredge the mouth of Pigeon Creek here. Estimated cost, $750,000. George P. Smith is Ch. Engr., Cincinnati, Ohio.

Park.—Newcastle, Ind.—E. T. Bunch and others, of Detroit, Mich., have leased land at Newcastle, Ind., and will convert the tract into a modern amusement park.

Pipe Lines.—Oakland City, Ind.—G. E. Turpin, of Flat Rock, Ill., has organized a company which will soon ask for bids for laying a pipe line to convey oil and gas from Oakland City to Petersburg, Ind.

Park and Resort.—Richmond, Ind.—The Commercial Club of Richmond will lay out a park on a tract of land on the east fork of the Whitewater River. Cottages, boathouses and other buildings will be constructed and a concrete dam erected. Contracts for clearing the site and constructing the buildings will be let this year.

✚Fire Station.—Flint, Mich.—The city has awarded the contract to H. A. DEWSTOE, Flint, for the construction of a 2-story and basement fire station, 35 × 60 ft.

Straightening Creek.—Grand Rapids, Mich.—L. D. Cutcheon, City Engr., has presented estimates of cost to the City Council for straightening Coldbrook Creek from Emerald Ave. to Highland Park. Estimated cost, $28,000. Between Emerald Ave. and East St. the new plan includes a culvert, and from East St. to the park an open channel with the slopes and bed paved with cobble stone or heavy gravel.

Widening River.—Saginaw, Mich.—The City Council is considering widening the Saginaw River 600 ft.

Tile Drains.—Clinton, Ill.—Bids will be received until 1 p. m., Nov. 17, by the County Clerk, Clinton, for the construction of tile drains, in Branches B, C and D of Barnett Special Drainage District.. Plans, profiles and specifications may be examined at the office of the County Clerk, or at the office of Melluish & Broyhill, Bloomington, Ill., Consult Engrs.

✚Ditches and Drains.—Hoopestown, Ill.—Bids were received on Oct. 26 by the Commissioners of the Hoopeston Drainage District, Hoopeston, for constructing open ditches and tile drains. GEORGE McALLISTER, of Glencoe, Minn., was awarded the open work, requiring 121,000 cu. yds. of excavation, at $14,172. Bids for the tile work were rejected as excessive.

Levee and Ditches.—Winchester, Ill.—Bids will be received by the Commissioners of Scott County Drainage and and Levee District at the office of J. M. Riggs, Winchester, until noon, Nov. 29, for the construction of a levee and ditches, as follows: 840,000 cu. yds. of levee construction and 159,688 cu. yds. of ditch excavation. H. J. Marsh is Comr.; Naples, Ill.; Charles W. Brown is Engr.

Ditch.—Madison, Wis.—Bids will be received until 2 p. m., Nov. 17, by the Commissioners of Koshkonong, Mud Creek Drainage District, at the office of Buell & Lucas, Attys., Madison, for constructing a main ditch and laterals. The main ditch will be 13[illegible] miles long, 8 to 26 ft. wide at bottom, average depth 5.5 ft., slopes 1 to 1, requiring excavation of 270,000 cu. yds.; floating dredge work. There will be 28 laterals, aggregating 11.1 miles in length, 2 ft. wide at bottom, 4 ft. deep, slopes 1 to 1, containing 62,500 cu. yds. of dry land excavation. Three railroad bridges and seven highway bridges will be constructed. The soil is muck, clay and gravel, and nearest railroad station is Deerfield, one mile distant. E. R. Jones, Madison, is Engr. for the district.

✚Memorial Arch.—Madison, Wis.—The contract has been awarded by the Camp Randall Memorial Commission for the memorial arch at Camp Randall to F. M. SCHLIMGEN & CO., of Madison, at $20,000.

Ditch.—Marinette, Wis.—Bids will be received by the City Supervisors of Marinette and the Town Supervisors of Peshtigo until 2 p. m., Nov. 23, for the construction of a ditch through parts of Peshtigo and Marinette.

Gymnasium. — Watertown, Wis.—Schnetzky & Son, Archs., 1320 Ceder St., Milwaukee, Wis., have prepared plans for the construction of a 1-story brick gymnasium building for the Northwestern University at Watertown. The building is to be of brick and concrete construction, 70 × 11[illegible] ft. Estimated cost, about $25,000.

Coal Dock.—Duluth. Minn.—The Island Creek Coal Co., Boston, Mass., will build a coal dock here, to cost $1,000,000, it is reported.

Grandstand. — Minneapolis, Minn.—The Minneapolis American Association Baseball Club has decided to erect a new steel and concrete grandstand at Nicolette Park. Michael and Joseph Cantillion are the owners.

Ditch. — Marshall, . Minn. — Surveys have been made for the construction of the proposed Judicial Ditch No. 25 in Lincoln and Lyons Counties. Estimated cost, about $19,000, of which $11,000 is for a ditch requiring 108,000 cu. yds. of excavation, and 8,000 for tile. O. H. Sterk, Marshall, Minn., is Engr.

Subway.—Kansas City, Kan.—The Missouri Pacific Ry. System, E. F. Mitchell, Engr. of Constr., St. Louis, Mo., and other roads are contemplating constructing a subway near the Nelson Morris packing plant here.

Park.—Deadwood, S. Dak.—The citizens voted on Oct. 30 to issue about $50,000 of bonds to purchase a site for a park on which an auditorium will be erected.

Levee.—Independence, Mo.—The Blue Bottoms Levee District of Jackson County is having plans prepared for the construction of a levee in Blue Bottoms.

Dikes and Levees.—Kansas City, Mo.—S. W. Fox, Consult. Engr., Life Bldg., Kansas City, is preparing plans for the construction of dikes and levees for the East Bottoms Drainage District.

Drainage.—Little Rock, Ark.—Lund & Hill, Consult. Engrs., Little Rock, Ark., have submitted a report to the Commissioners of the Fourche Drainage District on the proposed drainage system for the district. The project includes the building of retaining walls to take care of back water in times of high river, and ditches to carry off the heavy surface water.

✚Levee.—Texarkana, Ark.—The contract for Miller Levee District No. 2 was awarded Nov. 11 to LOWRANCE BROS. CO., and R. L. LEONARD, Memphis, at 15.30 cts. per cu. yd. for 1,840,000 cu. yds. of levee, and 15 cts. per cu. yd. for 175,000 cu. yds. of ditch. The levee will be constructed entirely with teams and scrapers. The two next lowest bids were: R. H. & G. A. McWilliams, Chicago, 15.53 cts. for the levee and 14.75 cts. for the ditch; Roach & Stansell, of Memphis, at 15.90 cts. for the levee and 16.30 cts. for the ditch and levee. Twelve bids were received for the work. The Morgan Engineering Co., Memphis, are Engrs. for the District. Noted Oct. 10.

Ship Channel.—Beaumont, Tex.—Bids will probably be asked soon by the U. S. Engineer in Dallas, Tex., for the Sabine-Neches ship channel at Beaumont.

✚Bulkhead.—Port Arthur, Tex.—The RAYMOND CONCRETE PILE CO., 90 West St., New York, and Chicago, Ill., has been awarded the contract for building a reinforced concrete bulkhead 250 ft. long adjoining the 1,000-ft. reinforced-concrete dack that it designed and now has under construction at the plant of the Gulf Refining Co., at Taylor's Bayou, Port Arthur. George S. Davison is Pres., Pittsburgh, Pa.

Park Improvements.—Clinton, Okla.—The city will soon ask for bids for park improvements.

Dams.—Parker, Ariz.—The Lotowana Placer Mining Co. has adopted plans for the construction of two dams near here which will conserve 150,000,000 gallons of water, the laying of a pipe line and the installation of considerable machinery, all for the purpose of operating its placer mines.

✚Mechanical Equipment. — Bellingham, Wash.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded the contract for the installation of the mechanical equipment for the post-office at Bellingham to CHRISTOPHER & BLYTHE, of Bellingham, at $39,500. List of bidders noted on Oct. 26.

+Steamer.—Seattle, Wash.—The Inland Navigation Co. has awarded a contract to the MORAN CO., of Seattle, for a modern steel 16-knot steamer, to cost $250,000.

+Remodeling Pier.—Seattle, Wash.—The contract for remodeling Pier Q, has been awarded by the Northern Pacific Ry. Co. to the WEYMOUTH CONTRACT CO., at about $300,000.

Drainage Ditch.—Stanfield, Ore.—Bids have been received for the construction of the drainage ditch, requiring 5,000 ft. of 30-in. concrete pipe for the Umatilla Drainage District. The lowest bidder was the Eschbach-Bruce Co., of North Yakima, Wash., at $16.586, exclusive of pipe. The Foley & Glesson Co., of Aitkin, Minn., submitted a bid of 24 cts per cu. yd. for the earth excavation of which there will be about 72,000 cu. yds.

Oil Tanks.—Springfield, Ore. — The Oregon Power Co., it is reported will soon construct two 50,000-gal. oil tanks at its plant here.

Conservatory.—Los Angeles, Cal.—General plans for the conservatory to be built in Eastlake Park have practically been decided on. It will have more than 40,000 ft. of floor space. Estimated cost, $100,000.

Harbor Impvts.—Los Angeles, Cal.—Plans for the permanent improvement of Los Angeles Harbor, involving an expenditure of $650,000 during the months of January, February and March of 1912, are being considered by the Bureau of Harbor Improvement. The plans now being prepared by the Harbor Engineer, are largely for the filling of the Huntington Concession, the establishment thereon of permanent improvements, such as wharves, docks and warehouses; the deepening of the channel between the Huntington Concession and the Minor Concession; and various other harbor improvements. It is reported that the center of activities will be the immediate and permanent improvement of the Huntington Concession.

Steel Sheds.—Stockton, Cal.—Edward Luke, Mgr. Sperry Flour Co., Stockton, has applied to the City Council for permission to construct steel sheds on the wharf space rented by the company.

Channel Work.—Santa Ana, Cal.—The Board of Directors of the Newberg Protection District will receive bids Nov. 25 for the wings to be built along the channel from the Santiago Creek to the lower end of the channel, in which 650 piles and 4,000 lbs. of barbed wire will be used.

Waterway.—Ottawa, Ont.—The survey has been completed for the Saskatchewan waterway from Edmonton, Alta., to Winnipeg, Man., it is reported. R. C. Desrochers is Secy. Dept. Pub. Wks., Ottawa.

***Subway.**—Toronto, Ont.—Bids were received as follows on Nov. 1 by the city for the construction of six sections of the proposed subways, exclusive of the roadbed, rails and rolling stock equipment: (a) Front St. to Albert St. Section; (b) Albert St. to Buchanan St.; (c) Buchanan St. to Irwin St.; (d) Irwin St. to Davenport Road; (e) Davenport Road to Cottingham St.; (f) Cottingham St. to St. Clair; (g) totals: 1—McKnight Con. Co., Toronto, (e) $435,049; 2—Clark & Monds, Toronto, (d) $427,703; 3—Orpen Co., Toronto, (a) $673,138, (b) $540,885, (c) $448,109, (d) $430,805, (e) $451,709, (f) $547,278, (g) $3,091,927; 4—Coleman Bros., Boston, Mass., (a) $738,439, (b) $659,886, (c) $653,098, (d) $625,548, (e) $580,193, (f) $655,019, (g) $3,912,185; 5—P. McGovern, Boston, Mass., (a) $713,416, (b) $640,143, (c) $637,960, (d) $596,214, (e) $589,369, (f) $672,288, (g) $3,849,290; 6—Anglo-Can. Con., Toronto, (a) $920,011, (b) $847,958, (c) $909,723, (d) $755,052, (e) $792,743, (f) $970,054, (g) $5,195,542; 7—Conners Bros., Lowell, Mass., (a) $576,966, (b) $512,460, (c) $527,231, (d) $456,540, (e) $427,721, (f) $461,946, (g) $2,962,867; 8—Smith & Pennock, New York, (a) $839,075, (b) $703,385, (c) $618,855, (d) 572,828, (e) $538,384, (f) $627,580, (g) $3,900,109; 9—F. L. Crawford, Brooklyn, N. Y., (a) $479,979, (b) $453,913, (c) $465,954, (d) $462,919, (e) $487,201, (f) $495,623, (g) $2,845,590; 10—Litchfield Con. Co., Brooklyn, (d) $372,915; 11—Hugh Nawn Co., Boston, (a) $731,408, (b) $574,672, (c) $630,041 (d) $587,908, (e) $578,423, (f) $628,111, (g) $3,730,566; 12—M. J. Haney, Toronto, (a) $510,441, (b) $409,845, (c) $384,952, (d) $362,503 (e) $380,849, (f) $426,188, (g) $2,474,781; 13—Canadian Stewart Co., Montreal, Que., (a) $650,081, (b) $462,653, (c) $482,473, (d) $407,522, (e) $426,190, (f) $501,792, (g) $2,930,713; 14—Larkin & Sangster, St. Catharines, Ont., (a) $756,335, (b) $607,418, (c) $532,167, (d) $491,939, (e) $502,669, (f) $565,223, (g) $3,455,754.

Steamer.—Victoria, B. C.—The Canadian Pacific Ry. Co. will construct a new steamer to cost $175,000. J. W. Troup, of Victoria, is Mgr., British Columbia Coast Service.

U. S. POSSESSIONS AND CUBA.

Paving.—Hawaii.—Bids are being received by the Board of Supervisors, Honolulu, H. T., for paving King St., between Nuuanu Stream and Kakauliko St.

+Machinery.—Hawaii.—A large contract has been awarded by the Island Investment Co. to the VON HAMM-YOUNG CO. for machinery for the hydroelectric plant which the company is building between Wailuku and Kahului on Maui Island, for the purpose of supplying those towns with electricity and light.

+Lumber.—Panama.—Bids were received as follows on Nov 10 by Maj. F. C. Boggs, Corps Engrs., U. S. A., Gen. Pur. Officer, Isthmian Canal Comn., Washington, D. C., for furnishing 3,189,000 ft. of lumber, yellow pine or Douglas fir, various sizes for use on the Panama Canal: G. Elias & Bro., Buffalo, N. Y., $83,724 (pine or fir); Gress Manufacturing Co., New York, $87,668 (pine); J. K. Joice, Chicago, Ill., $73,453 (pine); Charles Nelson Co., San Francisco, $66,212 (fir); Chicago Lumber & Coal Co., St. Louis, Mo., $78,633 (pine); D. L. Gillespie & Co., Pittsburgh, Pa., $68,920 (pine or fir); W. R. Grace & Co., San Francisco, part, $13,386 (fir);

LIST OF CONTRACTS PENDING

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file for reference only unless otherwise noted at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.		Noted in issue of
11-17	Filtration plant, Rock Island, Ill. (S.)	10-26
11-18	Walks, etc., Annapolis, Md. (S)	10-26
11-18	Stable, Newport, R. I. (S.)	11- 2
11-20	*Rock excavation, Boston, Mass (S.)	10-26
11-25	Bridge, Portsmouth, N. H. (S.)	11- 2
12- 2	Bridge and wharf, Indianhead, Md. (S)	11- 9
12- 2	Repairs to conveyors, Key West, Fla. (S.)	11-16
12-16	Magazine bldgs., Bremerton, Wash. (S)	11- 9

Light, Heat and Power Plants.

Bids close.		Noted in issue of
At once	Elec. light system, Baxley, Ga.	11-16
11-17	Storage dam, Renfrew, Ont.	11-16
11-18	Transmission machinery, Newark, N. J.	11-16
11-20	Addition to electric light plant, Columbus, Ohio	11- 9
11-20	Heating system, Clay Center, Kan	11- 2
11-21	Electric lighting, Fremont, Ohio.	11- 2
11-24	*Equipment for power station, Lethbridge, Alta.	10- 5
11-27	Heating plant, Los Angeles, Cal.	11- 9
11-30	Street lighting, Saratoga Springs, N. Y.	11-16
12- 6	Electric light plant, Enfield, N. C.	11-16
12- 7	Power machinery, New Orleans, La.	10-12
12- 9	Light plant, Piedmont, Ala.	11-16
12-16	12-16*Materials, (See Proposals) Philadelphia, Pa.	11- 9

Bridges.

Bids close.		Noted in issue of
11-16	Bridge, Glenshaw, Pa.	11-16
11-17	Bridge work, Cincinnati, O.	11-16
11-17	Trestle, Los Angeles, Cal.	11- 9
11-18	Bridge, Harrisburg, Pa.	11- 9
11-20	Bridges, Houston, Tex.	10- 5
11-20	Bridge work, Boston, Mass.	11-16
11-24	Culvert, Cincinnati, O.	11- 9
11-24	Viaduct, Cincinnati, O.	11- 9
11-25	Bridge, Toledo, Ohio.	10-26
11-25	Bridge, Portsmouth, N. H.	11- 2
11-29	Bridge work, Cleveland, O.	11- 9
12- 1	*Superstructure, Portland, Ore.	10-19
12- 2	Bridge, Indianhead, Md.	11- 9
12- 2	Bridge work, Cleveland, O.	11-16
12- 6	*Bridge, Castle Hayne, N. C.	11- 9
12-28	*Bridge, New Orleans, La.	11-16

Buildings.

Bids close.		Noted in issue of
11-20	Bldg., New York, N. Y.	11- 9
11-20	U. S. post-office, Dayton, O.	10-19
11-20	Court-house, Dodge City, Kan.	11-16
11-22	U. S. post-office, Jersey City, N. J.	10-19
11-27	*U. S. post-office, Huron, S. Dak.	10-19
11-27	New high school, Mt. Vernon, N. Y.	11-16
11-27	Court-house, Chattanooga, Tenn.	11- 9
11-27	High school, Pasadena	11-16
11-27	Hotel, Hartford, Conn.	11-16
11-29	Apartment house, Balt., Md.	11-16
11-29	*Cottages, Valatie, N. Y.	11-16
11-29	U. S. post-office, Bloomington, Ind.	10-19
11-30	Buildings, Baton Rouge, Pa.	11-16
12- 2	*U. S. post-office, Parsons, Kan.	10-19
12- 5	U. S. post-office, Union City Tenn.	10-19
12- 5	Infirmary, Rockville, Ind.	10-19
12- 5	College bldgs., Storrs, Conn.	11-16
12- 6	City Hall, Cleveland Ohio	11-16
12-12	*Hospital equip., Pottsville, Pa.	11-16
12-14	Interior work, U. S. Hospital, Stapleton N. Y.	11-16
12-14	U. S. marine hospital, Stapleton (S. I.), New York	11-16
12-14	*U. S. post-office, Homestead, Pa.	10-19
12-20	U. S. Post-Office, Westfield, Mass.	11-16
12-20	U. S. post-office, Westfield, Mass.	11-16
12-27	U. S. post-office, Miami, Fla.	11-16
12-28	U. S. custom house, remodel, Boston, Mass	11- 2
——	Remodeling armory, Buffalo, N. Y.	11-16
——	Y. M. C. A., Vincennes, Ind.	11-16
——	Church, Oak Forest, Ill.	11-16

Water-Works.

Bids close.		Noted in issue of
At once.	W-wks. extension, Baxley, Ga.	11-16
11-17	W.-Wks., Wilcox, Neb.	11- 9
11-17	Filtration plant, Rock Island, Ill.	10-26
11-17	Siphons, Los Angeles, Cal.	10-26
11-17	*Well, Fort Hancock, N. J.	11- 2
11-17	W.-wks. impvts., Trenton, Tenn.	11-16
11-17	Watermains, Moorehead, Minn.	11-16
11-18	Pumping engine, Temple, Tex.	11-16
11-18	Reservoir, Richmond, Ind.	11-16
11-20	Pipe, etc., El Centro, Cal.	11-16
11-20	Canal, Turlock, Cal.	11- 2
11-20	Pumping station, Springfield, Ill	11- 2
11-20	Water pipe, Prince Rupert, B. C	11- 2
11-20	*Waterpipe, Pryor Creek, Okla.	11- 9
11-20	Water-works, Russellville, Ark.	11-16
11-21	Well, Chandler, Okla.	11-16
11-21	Tank and tower, Blue Earth, Minn.	11-16
11-21	Valves, Cleveland, Ohio	11-16
11-21	*Water-works, Obion, Tenn.	10-26
11-22	Water system, Exeter, Cal.	11- 9
11-24	Pipe line, etc., Independence, Mo.	11-16
11-27	Water-works, Pacific, Mo.	11-16
11-28	Water-wks., Monmouth, Ore.	11-16
11-30	*Canals, Yuma, Ariz.	11- 9
12- 1	*Water supply, Cumberland, Md	11- 2
12- 2	Water-wks., Hubbard, Ohio.	11-16
12- 4	Water system, Rushville, Ill.	11-16
12- 4	Pumping engines, Moose Jaw, Sask.	11- 9
12- 5	Water-wks., Elma, Wash.	11-16
12- 5	* Pumping engine, Muskogee, Okla.	11-16
12- 6	*Pumping engine, Erie, Pa.	11- 9
12- 6	Electrical energy, Fallon, Nev	11- 2
12- 9	Water extensions, Piedmont, Ala.	11-16
12-14	*Pumping station, Clarksville, Tenn.	11-16
12-15	Pump house, tower, etc., Neepawa, Man	11- 2

Sewers.

Bids close.		Noted in issue of
11-17	Sewer system, Clinton, Ill.	11- 9
11-17	Sewers, Washington, D. C.	11- 9
11-17	Sewer, San Francisco, Cal.	11-16
11-17	Sewers, Boston, Mass.	11-16
11-17	Sewers, Salt Lake City, Utah	11-16
11-17	Sewers, etc., Troy, N. Y.	11-16
11-20	Sewers, South Orange, N. J.	11-16
11-20	Sewers, etc., Celina, Ohio	11-16
11-21	Sewer, Eveleth, Minn.	11- 9
11-21	Sewers, Pratt, Kan.	11- 9
11-22	Sewers, Buffalo, N. Y.	11-16
11-24	*Sewer system, etc., Ligonier, Pa.	11-16
11-27	*Sewers, Plainfield, N. J.	11-16
11-27	*Sewers, Plainfield, N. J.	11- 9
12-11	*Disposal plant, Norristown, Pa.	11-16
12-12	*Sewer, New Bedford, Mass.	11-16

Streets and Roads.

Bids close.		Noted in issue of
11-16	Paving, etc., St. Petersburg, Fla.	11-16
11-17	Paving, Boston, Mass.	11-16
11-17	Fills, etc., Middlebourne, W. Va.	11-16
11-17	Street improvement, Cincinnati, Ohio	11- 9
11-17	Paving, Louisville, Ky.	11- 2
11-17	Grading, etc., Troy, N. Y.	11-16
11-18	Walks, etc., Annapolis, Md.	10-26
11-20	Road improvement, East View, Ohio	11- 2
11-20	*Paving, Elmira, N. Y.	11-16
11-21	Curbing, Connellsville, Pa.	11-16
11-22	Paving, etc., New York	11-16
11-22	*Roads, Fort Dupont, Del.	11- 9
11-23	Paving, Elsberry, Mo.	11- 9
11-23	Grading, Mansfield, Ohio	11- 9
11-23	Grading, Lacarne, Ohio	11-16
11-24	Paving, etc., Newton N. J.	11- 9
11-24	*Paving, Jacksonville, Fla.	11- 9
11-27	*Highway improvement, Albany, N. Y.	11- 2
11-27	Sidewalks, Lancaster, Mo.	11- 9
11-29	*Highway improvement, Albany, N. Y.	11- 2
12- 1	Paving, Edmonton, Alta.	11- 2
12- 1	Road improvement, Cincinnati, Ohio	11- 9
12- 1	Soil work, Boston, Mass.	11-16
12- 1	Clay road, Dadeville, Ala.	11-16
12- 4	Paving, Brandon, Miss.	11-16
12- 4	Gravel road, Williamsport, Ind.	11-16
12- 4	Gravel roads, Fowler, Ind.	11-16
12- 4	Macadam road, Greenfield, Ind.	11-16
12- 4	Gravel road, Huntington, Ind.	11-16
15- 5	Stone road, Logansport, Ind.	11-16
12- 5	Gravel roads, Valparaiso, Ind.	11-16

Miscellaneous.

Bids close.		Noted in issue of
11-17	*Subway superstructure, Saskatoon, Sask.	10-26
11-17	Ditch, Madison, Wis.	11-16
11-17	Tile drains, Clinton, Iowa	11-16
11-17	Fencing, New Bedford Mass.	11-16
11-18	Retaining wall, Newark, N.J.	11-16
11-18	Dredging, Washington, D. C.	11- 2
11-18	Stable, Newport, R. I.	11- 2
11-19	Elec. lighting, Roumania (Foreign)	9-21
11-20	*Pier and bulkhead, Philadelphia, Pa.	10-26
11-20	*Rock excavation, Boston, Mass.	10-26
11-20	*Repairs, to canal walls, Saulte Ste. Marie, Mich.	10-26
11-20	Electric towing locomotives, Panama (U. S. Poss.)	
11-20	*Drainage canal, Caruthersville, Mo.	10-19
11-20	Stable, Front Royal, Va.	11- 9
11-20	Fire apparatus, North Yakima, Wash.	11- 2
11-20	Dredge fill, New Smyrna, Fla.	11-16
11-21	Ditch, Brownstown, Ind.	11-16
11-21	Rebuilding piers, Boston, Mass.	11-16
11-21	Wall, New York	11-16
11-21	*Fish hatchery, Pratt, Kan.	11- 9
11-22	Power plant, South Africa (Foreign)	10-19
11-22	Cable, Australia (Foreign)	10-19
11-22	Projectiles, Washington, D. C.	11- 2
11-22	Locomotive cranes, etc., Panama (U. S. Poss.)	11- 9
11-23	*Barges, Wheeling, W. Va.	10-26
11-23	Office, New York	11-16
11-23	Ditch, Marietta, Wis.	11-16
11-23	Fire apparatus, Marion, O.	11-16
11-24	Equipment, Los Angeles, Cal.	11-16
11-24	*Locomotive crane, Memphis, Tenn.	10-26
11-24	Ditch, Olivia, Minn.	11- 9
11-25	Channel work, Santa Ana, Cal.	11-16
11-27	*Channel impvt., New York	11- 2
11-28	*Bulkhead wall, Providence, R. I	11- 2
11-28	Dock, Bulgaria (Foreign)	11- 2
11-28	Steel castings, etc., Panama, (U. S. Poss.)	11-16
11-29	*Bulkhead wharf, Richmond, Va.	11-16
11-29	Levee and ditches, Winchester, Ill.	11-16
11-29	Copper wire, etc., Australia (Foreign)	10-19
11-29	Fire apparatus, New York	11- 9
12- 1	Buildings, Hawaii (U. S. Poss.)	11- 9
12- 1	Monument, Elmira, N. Y.	11- 9
12- 1	*Pumping machinery, India, (Foreign)	9-21
12- 1	Drainage, Osceola, Ark.	10- 5
12- 1	*Hulls and boilers, Charleston, S. C.	11- 2
12- 1	Soil work, Boston, Mass.	11-16
12- 1	Gun carriages, Wash., D. C.	11-16
12- 2	Repairs to conveyors, Key West, Fla.	11-16
12- 2	*Cut stone, Nashville, Tenn.	11- 2
12- 4	*Condensers, pumps, etc., Philippine Islands (U. S. Poss.)	10- 5
12- 4	*Engines, generators, etc., Philippine Islands (U. S. Poss.)	9-28
12- 5	Buildings, Porto Rico (U. S. Poss.)	10-19
12- 5	Barge Canal, Albany, N. Y.	11- 9
12- 5	Subway, New York	11-16
12- 5	*Refuse disposal, Boston, Mass.	11-16
12- 7	*Concrete work, Cincinnati, O.	11- 9
12-10	Steel rails, Siam (Foreign)	11- 2
12-10	*Dam, etc., Boise, Idaho	11-16
12-11	Road, Morocco (Foreign)	11- 2
12-12	Wire, Australia (Foreign)	11- 2
12-13	Removing snow and ice, (Garbage), Boston, Mass.	11- 9
12-15	*Hopper suction dredge, British West Indies (Foreign)	11- 9
12-16	Magazine buildings, Bremerton, Wash.	11- 9
12-16	*Light station, Phila., Pa.	11-16
12-27	*Dredges, San Francisco, Cal.	10- 5
12-30	*Gate machines and pumps, Panama (U. S. Poss.)	11- 2
1- 4	Battleships, Wash., D. C.	11- 9
2- 6	(1912) Cranes, rails, Uruguay (Foreign)	11- 2
——	*Concrete, Montezuma, N. Y.	10-26
——	Excavation, Shelburne Falls, Mass.	9-23
——	*Sand handling machinery, Peekskill, N. Y.	11-16

Examinations.

Examination date.		Noted in issue of
11-22	Electrical Assistant, Washing. D. C.	10-19
11-22	Editorial Clerk, Washington, D. C.	10-26
11-25	Assistant Mechanical Engineer, Washington, D. C.	10-26

Thomas E. Coale Lumber Co., Philadelphia, $97,035 (pine); Great Southern Lumber Co., Buffalo, N. Y., $79,313 (pine). Deliveries of pine to be made at Colon; of fir at Ancon. Award will probably be made to the CHARLES NELSON CO.

Steel Castings, Etc.—Panama.—Bids will be received by Maj. F. C. Boggs, Corps Engrs., U. S. A., Gen. Pur. Officer, Isthmian Canal Comn., Washington, D. C., until 10.30 a. m., Nov. 28, for furnishing hose, steel and manganese steel castings, and lumber and piles. Blanks and general information relating to this circular, No. 663, may be obtained at Washington or at the offices of the Assistant Purchasing Agents, 24 State St., New York; 614 Whitney-Central Bldg., New Orleans, and 1086 North Point St., San Francisco; also from the U. S. Engineer offices in Seattle, Los Angeles, Baltimore, Philadelphia, Pittsburgh, Boston, Buffalo, Cleveland, Cincinnati, Chicago, St. Louis, Detroit, Milwaukee, St. Paul, Chattanooga, Louisville, Mobile and Galveston; Commercial Club, Kansas City, Mo.; Chamber of Commerce, Quincy, Ill., and Chamber of Commerce and Board of Trade, Tacoma, Wash.

Buildings. — Hawaii. — Bids were received as follows on Nov. 11 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of a general administration building and a general storehouse at the Naval Station, Pearl Harbor, H. T.: Administration building: Sound Construction & Engineering Co., 1007 Lowman Bldg., Seattle, Wash., (1) $65,559, (2) $64,519, (3) $64,501, (4) $63,661, (5) $419, (6) $1,020, (7) $720, (8) $5,491; W. N. Concannon Co., Monadnock Bldg., San Francisco, Cal., (1) $68,687, (2) $1,340, (3) $100, (4) $1,440, (5) $219, (6) $3,500, (7) $800, (8) $1,750; Snare & Triest Co., 143 Liberty St., New York, (1) $71,400, (2) $70,400, (3) $72,000, (4) $70,000, (5) $20,000, (6) $2,900, (7) $1,000, (8) $2,000. General storehouse: Sound Construction & Engineering Co., Seattle, (1) $74,810, (2) $77,189, (3) $5,000, (4) $5,183, (5) $10, (6) $3,500; W. N. Concannon Co., Monadnock Bldg., San Francisco, (1) $76,683, (2) $2,000, (3) $4,000, (4) $3,875, (5) $12, (6) $1,750; Snare & Triest Co., 143 Liberty St., New York, (1) $91,520, (2) $93,000, (3) $4,800, (4) $4,900, (5) $9, (6) $2,000.

Snubbing Posts. — Panama. — Bids were received as follows on Nov. 13 by Maj. F C. Boggs, Corps Engrs., U. S. A., Gen. Pur. Officer, Isthmian Canal Comn., Washington, D. C., for furnishing material parts for snubbing posts and springs, anchors, etc., for buffers on the lock walls on the Panama Canal. (Class 1, 89 snubbing posts, type "A," 496 snubbing posts, type "B," with washers; Class 2, 89 anchor bolts, "A," 496 anchor bolts, "B," with timber bolts, two-link chains, special links for hangers, bronze sleeves, eyes and anchor rods; Class 3, 25,608 helical springs): American Car & Foundry Co., 165 Broadway, New York, (1) $8,597, (2) $6,257, (3) $19,206; American Steel Foundries, Chicago, (3) $128,040, (vanadium steel); Buffalo Foundry & Machine Co., Buffalo, N. Y., (1) $6,608; Crucible Steel Co. of America, Pittsburgh, (3) $41,485; $54,289, $83,226 (vanadium steel); Fawcus Machine Co., Pittsburgh, (1) $6,474; R. C. Hoffman & Co., Baltimore, (1) $6,999; Marshall Foundry Co., Pittsburgh, (1) $7,734; Minneapolis Steel & Machinery Co., Minneapolis, Minn., (1) $7,040, (2) $7,458; New Jersey Foundry & Machine Co., New York, (1) $5,725, (2) $6,713; Power & Mining Machinery Co., 115 Broadway, New York, (1) $7,112, (2) $6,548; Railway Steel Spring Co., 30 Church St., New York, (3) $15,877; alternates, $14,084, $13,572, $13,316, $13,828; Richard Mfg. Co., Bloomsburg, Pa., (1) $8,070, (2) $8,613, (3) $23,047; Rosedale Foundry & Machine Co., Pittsburgh, (1) $8,730, (2) $7,517; Ross-Meehan Foundry Co., Chattanooga, Tenn., (1) $5,518; Sterritt Thomas Foundry Co., Pittsburgh, (1) $6,329; Union Foundry & Machine Co., Pittsburgh, (1) $10,093, (2) $7,909; Union Spring & Mfg. Co., Pittsburgh, (3) $14,084; alternate, $15,365; United States Steel Products Co., 50 Church St., New York, (3) $15,621; Weatherley Foundry & Mfg. Co., Weatherly, Pa., (1) $6,517; Wheeling Mould & Foundry Co., Wheeling, W. Va., (1) $8,520; Lynchburg Foundry Co., Washington, D. C., (1) $7,381; Trenton Foundry & Machine Co., New York, (1) $6,278. W. Bingham Co., Cleveland, Ohio; Illinois Bolt, Nut & Forge Co., Chicago; Oliver Iron & Steel Co., Pittsburgh; Pittsburgh Rivet Co., Pittsburgh; Pittsburgh Screw & Bolt Co., Pittsburgh, and Julian Richmond, 165 Broadway, New York, submitted incomplete bids.

INDUSTRIAL NOTES.

The Universal Road Machinery Co., is now constructing its sixth factory at Kingston, N. Y. It is interesting to note that in 1904, this company owned only one plant.

Mr. W. P. Sullivan, formerly Superintendent of the Alabama Consolidated Coal & Iron Co., Birmingham, Ala., has purchased from Mr. J. A. Bell, a half interest in the Manufacturers Agency, Richmond, Va. Mr. Sullivan will have entire charge of the company's engineering work.

The Wheeler Condenser & Engineering Co., Carteret, N. J., announces the appointment of Mr. George F. Pond, as manager of the Philadelphia territory, with offices in the Commonwealth Trust Bldg., and also the appointment of Mr. Walter G. Stephan as manager of the Cleveland territory with offices at 1325 Citizens Bldg.

The Land Exposition, held in New York recently for the purpose of advertising farm lands, although it was on the order of a county fair, it was remarkably successful. The mechanical features applying to agriculture were exhibited in a particularly attractive way. The Pennsylvania Railroad had models of the river tunnels in and around New York, as well as the line through the Allegheny Mountains and an enlarged model of the famous horseshoe curve. The National Meter Co., 84 Chambers St., New York, exhibited a 25-HP. Nash Gas Engine connected with a 25-HP. Smith producer, burning pa coal. The coal consumption per KW.-hour was given as 1½ lbs.

The Bucyrus Co., South Milwaukee, Wis., have recently completed a plan of recapitalization. The stock will be increased to $10,000,000 authorized, of which $8,000,000 will be issued. New shops are now being erected at Evansville, Ind., in addition to the plant at South Milwaukee. This new plant site covers 70 acres, and the shops will ultimately employ 1,000 men. Shovels with wire rope hoists, as well as chain shovels will be built in this new plant. It is also proposed to bring out a full line of light revolving shovels weighing up to 40 tons. The company will also take up the manufacture of other types of earth-handling and excavating machinery.

Although satisfactory progress has been made in the development of foreign business and the company now has dredges in operation in most of the important mining centers, the company will hereafter give more active attention to the export business. This can be readily taken care of with the increased facilities and enlarged capital, a thing impossible heretofore. To this end the company has secured influential banking accommodation, primarily for the export business through the house of Pomroy Bros., New York, and Edward B. Smith & Co., of Philadelphia.

Mr. H. P. Eells, Pres. of the company since its organization, will be Chairman of the Board of Directors. Mr. William W. Coleman, formerly V.-Pres., will be the new President; Mr. E. K. Swigart, who was one of the Vice-Presidents, will now be the Vice-President; Mr. G. A. Morrison and Mr. Dan P. Eells will retain their positions as Secretary and Treasurer, respectively. The Board of Directors also includes the following men: Mr. O. H. Cutler, Pres. of the American Brake Shoe & Foundry Co., New York; Mr. W. H. Marshall, Pres. of the American Locomotive Co., New York; Mr. A. H. Lockett, of Pomroy Bros., New York; Mr. D. E. Pomroy, V.-Pres. of the Bankers Trust Co., New York; Mr. G. W. McGarrah, Pres. of the Mechanics & Metals National Bank, New York; Mr. H. H. Dean, of Edward B. Smith & Co., Philadelphia; Mr. G. F. Steedman, Pres. Curtis & Co., St. Louis, and Mr. J. B. Torbell, V.-Pres. of the American Brake Shoe & Foundry Co., Chicago.

Contractors

Bids opened December 5, 1911, for the construction of Section 9 of the Lexington Avenue Rapid Transit Railroad of New York City.

3,097 feet of four-track subway, between 67th and 79th streets.

Write or call concerning forms of contracts, plans and specifications.

Public Service Commission
FIRST DISTRICT
154 NASSAU STREET
New York City

EQUIPMENT FOR HOSPITAL.

OFFICE OF THE COUNTY CONTROLLER OF SCHUYLKILL COUNTY.

Pottsville, Pa., November 13, 1911.

Sealed proposals will be received at this office until 12 o'clock Noon, on the 12th day of December, 1911, and then opened for contracts:

"G" for "A Refrigerating Plant."

"H" for "The Refrigerators."

"I" for "The Furnishing and Installation of Kitchen, Bakery and Pantry Apparatus and Cooking Utensils."

"J" for "Laundry Machinery and Appliance."

"K" for "A Common Battery Private Telephone Exchange, Wiring, Conduit, etc."

"L" for "A Vacuum Cleaning Equipment."

"M." for "Hospital Equipment and Auxiliary Apparatus."

"N" for "Iron Beds, Springs, Mattresses and Pillows."

"O" for "Wood Office Furniture, etc."

"P" for "Electric Light Fixtures, etc."

"Q" for "An Electric Time Clock System, Wiring and Conduit, etc."

"R" for "A Complete Fire Alarm Signal System, etc."

"S" for "The Construction of a Fireproof Vault, Lining, and Steel Security Locker, etc."

"T" for "Steam Sterilizer Equipment and Connections, etc."

"U" for "Additional Electric Lighting of Rear Porches and changed Lighting of Male and Female Sick Wards, etc."

"V" for "Additional Elevator complete, etc."

"W" for "Extra Brickwork and Plastering, etc."

"Z" for "Window and Skylight Shades, Rollers, etc." Labor and Materials complete.

All of the above contracts necessary for the Furnishing and Equipment of the new Hospital for the Insane now in course of construction at Schuylkill Haven, Penna., in accordance with the drawings and specifications as prepared by Louis L. Stockton, Architect, and Henry C. Pelton, Architect Associated, 8 West 38th Street, New York City, separate copies of which may be obtained at the office of the County Commissioners on and after 10 A. M., November 15th, 1911.

Those desiring to estimate on any or all of the following contracts must file their names and addresses immediately with certified checks for Contract "G" $10.00; Contract "H" $10.00; Contract "I" $15.00; Contract "J" $15.00; Contract "K" $5.00; Contract "L" $5.00; Contract "M" $25.00; Contract "N" $10.00; Contract "O" $10.00; Contract "P" $7.00; Contract "Q" $5.00; Contract "R" $5.00; Contract "S" $5.00; Contract "T" $10.00; Contract "U" $15.00; Contract "V" $15.00; Contract "W" $10.00; Contract "Z" $5.00; at the office of the County Commissioners.

Separate plans and separate specifications on any or all of the above contracts will then be forwarded by return mail to the applicants. These amounts are to cover the actual cost of printing the plans and specifications of each contract, and will not be returned to the bidders on the return of their plans and specifications, which must accompany the proposals.

If plans and specifications are not returned with the bidders' proposals, the estimates will not be accepted or considered.

The right is reserved to reject any or all bids.

By direction of the County Commissioners.

CHAS. T. STRAUGHN,
County Controller.

PUMPING ENGINE.

SPECIAL BOND ISSUE OF 1911.

Muskogee, Okla.

Sealed proposals will be received by the Mayor and City Council of the City of Muskogee, Okla., until 10 a. m., Tuesday, December 5, 1911, and opened immediately thereafter, for furnishing and erecting upon foundations to be furnished by the bidder a 6,000,000-gallon horizontal high-duty crank and fly-wheel pumping engine, to operate against 320 ft. total head.

The contract contains a bonus and penalty clause, and the City reserves the right to order the removal of the engine if it fails to come within fixed limits of the contractor's guarantee.

A certified check for ten per cent. (10%) of the amount of the proposal shall accompany each bid.

Specifications can be seen and secured at the office of the Consulting Engineer, 114 Liberty St., New York City, or at the office of the City Engineer, Muskogee, Okla.

The City reserves the right to reject any or all bids, or to accept that bid which in the opinion of the Mayor and City Council is for the best interest of the City.

E. H. FLEMING,
Commissioner of Water and Sewers.
ALEXANDER POTTER,
Consulting Engineer.
T. P. CLONTS,
City Engineer.

CHANGE OF DATE.

COTTAGES FOR INMATES.

Valatie, N. Y.

All bids received on October 25th, 1911, having been rejected, sealed proposals for construction, including heating, plumbing and electric work for two cottages for inmates at the State Farm for Women, Valatie, N. Y., will be received by Hon. Jos. F. Scott, Superintendent State Prisons, Capitol, Albany, N. Y., until 12 o'clock noon, Wednesday, November 29th, 1911, when they will be opened and read publicly.

Proposals shall be accompanied by a certified check in the sum of $3,500 and the contractor to whom award is made will be required to furnish surety company bond in the sum of Thirty-five thousand dollars ($35,000) within thirty days after official notice of award of contract and in accordance with the terms of specification No. 1471. The right is reserved to reject any or all bids.

Drawings and specifications may be consulted and blank forms of proposal obtained at the office of the Warden, Valatie, N. Y., and at the office of the State Architect. Complete sets of plans and specifications will be furnished prospective bidders upon reasonable notice to and in the discretion of the State Architect, Franklin B. Ware, Albany, N. Y.

PUMPING STATION, RESERVOIRS AND FILTER TANKS.

Clarksville, Tenn.

Sealed proposals will be received by the City of Clarksville, Tennessee, until 2:00 p. m., December 4, 1911, for the construction of Reinforced Concrete Sedimentation Basins, Clear Water Reservoirs, Filter Tanks, and Pumping Station.

Any party desiring to submit a proposal for the work may obtain Instructions to Bidders, Form of Proposal, and Plans and Specifications, from the Superintendent of Water Department, of said City, upon making a deposit therefor of fifteen dollars, which deposit will be returned to said party, provided the said Plans and Specifications be returned in good order to said Superintendent on or before December 4, 1911.

The City of Clarksville, Tennessee, reserves the right to reject any or all bids.

S. J. LOWE,
Superintendent Water Department,
Clarksville, Tennessee.
DABNEY H. MAURY,
Consulting Engineer.

DAM, POWER HOUSE AND PUMPING STATION.

Boise, Idaho.

The Crane Falls Power & Irrigation Company ask for tenders on construction of their proposed works on the Snake River, Southern Idaho, approximate value of contracts $500,000. Plans and specifications may be seen on and after Dec. 1, 1911, and tenders will be received until Dec. 10, 1911. The Company will arrange for its representative to accompany responsible contractors to the site of the works near Mountain Home and Caldwell. Plans and specifications may be seen at the offices of the Company's Engineers, Messrs. Smith, Kerry and Chace, Lewis Building, Portland, Oregon, and Winch Building, Vancouver, B. C., as also at the Company's office Boise, Idaho.

For other Proposal Advertisements see pages
49, 50, 52, 53
of Advertisements and Construction News, page 228

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ENGINEERING NEWS
When Writing Advertisers